HITACHI

PA | No. 0134

SERVICE MANUAL

NTSC | DP07 Chassis

53SWX01W
61SWX01W

R/C: CLU-572TSI
R/C: CLU-575TSI
R/C: CLU-577TSI

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CAUTION: Before servicing this chassis, it is important that the service technician read the “Safety Precaution” and “Product Safety Notices” in this service manual.

SAFETY NOTICE
USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by a ⚠ on the schematics and on the parts list in this Service Data and its supplements and bulletins. Before servicing the chassis, it is important that the service technician read and follow the “Safety Precautions” and “Product Safety Notices” in this Service Manual.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

PROJECTION COLOR TELEVISION

SEPTEMBER 2000 HHEA-MANUFACTURING DIVISION

SAFETY NOTICE
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For continued X-Radiation protection, replace picture tube with original type or Hitachi approved equivalent type.

This Service Manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health and Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with solder. Also, when soldering do not inhale any smoke or fumes produced.

This television receiver provides display of television closed captioning in accordance with section 15.119 of the FCC rules.

FEDERAL COMMUNICATIONS COMMISSION NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

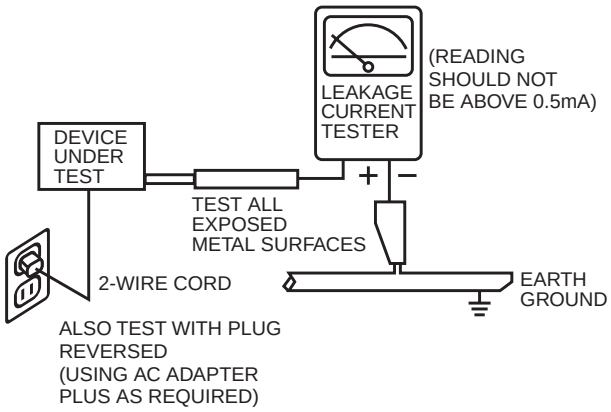
SAFETY PRECAUTIONS

1. Before returning an instrument to the customer, always make a safety check of the entire instrument, including but not limited to the following items.
   a. Be sure that no built-in protective devices are defective and/or have been deleted during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpaper, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**

   b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to (1) spacing between the picture tube and cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.

   c. **Antenna Cold Check** – With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input, exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is 1 MegaOhm±10%, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.

   d. **Leakage Current Hot Check** – With the instrument completely reassembled, plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.0 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal waterpipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle bracket, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 1.3 milliamps. Reverse the instrument power cord plug in the outlet and repeat test.



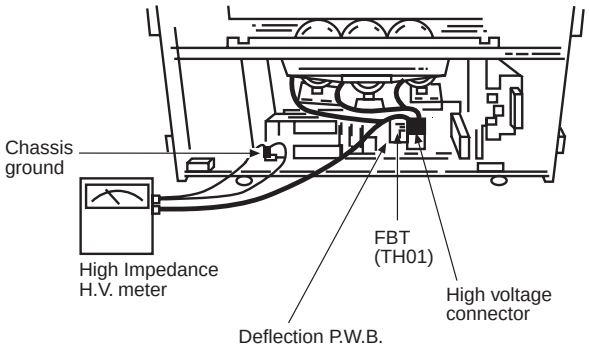
AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

e. **High Voltage –** This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply will all notes described in this Service Manual regarding this hold down circuit when servicing, so that this hold down circuit may correctly be operated.

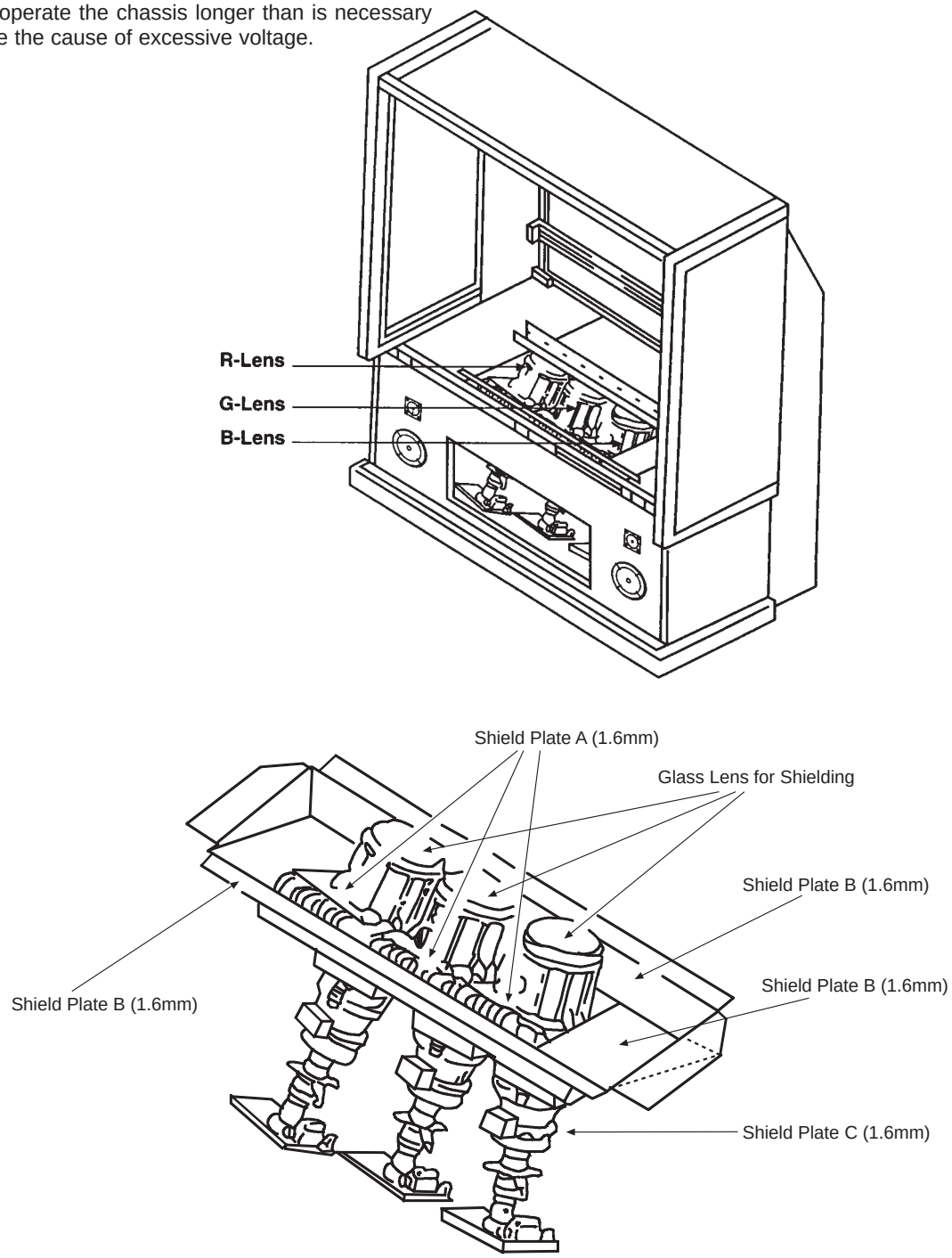
f. **Service Warning –** With maximum contrast, operating high voltage in this receiver is lower than **35.5 kV.** In case any component having influence on high voltage is replaced, confirm that the high voltage with maximum contrast is lower than **35.5 kV.**
To measure H.V. use a high impedance H.V. meter. Connect (-) to chassis earth and (+) to the CRT anode button. (See the following connection diagram.)

Note: Turn power switch off without fail before the connection to the anode button is made.



g. **X-radiation – TUBE:** The primary source of X-radiation in this receiver is the picture tube. The tube utilized for the above mentioned function in this chassis is specially constructed to limit X-radiation emissions.
For continued X-radiation protection, the replacement tube must be the same type as the original, Hitachi approved type.
When troubleshooting and making test measurements in a receiver with a problem of excessive high voltage, avoid being unnecessarily close to the picture tube and the high voltage component.
Do not operate the chassis longer than is necessary to locate the cause of excessive voltage.

h. **X-radiation Shield –**
1. This receiver is provided with X-ray shield plates for protection against X-radiation. Do not remove X-ray shield plates A, B, or C shown in Fig. 1 unnecessarily, when troubleshooting and/or making test measurements.
2. To prevent X-radiation, after replacement of picture tube and lens, confirm these components to be fixed correctly to bracket and cabinet, and not to be taken off easily.



Detailing X-radiation shield, ( ) plate thickness

Fig. 1. Installation of shield lens, shield cover and shield plates (oblique view).

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the picture tube.

3. **Design Alteration Warning** – Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions including but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connectors, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions may void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.

4. **Picture Tube Implosion Protection Warning** – The picture tube in this receiver employs integral implosion protection. For continued implosion protection, replace the picture tube only with one of the same type number. Do not remove, install, or otherwise handle the picture tube in any manner without first putting on shatterproof goggles equipped with side shields. People not so equipped must be kept safely away while picture tubes are handled. Keep the picture tube away from your body. Do not handle the picture tube by its neck.

5. **Hot Chassis Warning** – **a.** Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and may be safely serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. Confirm that the AC power plug is inserted correctly with an AC voltmeter by measuring between the chassis and a known earth ground. If a voltage reading in excess of 1.0V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground. **b.** Some TV receiver chassis normally have 85V AC (RMS) between chassis and earth ground regardless of the AC plug polarity. These chassis can be safely serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection. c. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.

6. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: **a.** near sharp edges, **b.** near thermally hot parts – be sure that leads and components do not touch thermally hot parts, **c.** the AC supply, **d.** high voltage and **e.** antenna wiring. Always inspect in all areas for pinched, out-of-plate, or frayed wiring. Do not change spacing between components and the printed circuit board. Check AC power cord for damage.

7. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.

8. **PRODUCT SAFETY NOTICE** – Many TV electrical and mechanical parts have special safety-related characteristics some of which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified in Hitachi service data by shading on schematics and by a ⚠ in the parts list. Use of substitute replacement that does not have the same safety characteristics as the recommended replacement part in Hitachi service data parts list might create shock, fire, and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate. For the latest information, always consult the appropriate current Hitachi service literature. A subscription to, or additional copies of service literature may be obtained at a nominal charge from Hitachi.

SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service data and its supplements and addenda, read and follow the SAFETY PRECAUTIONS on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Guidelines

1. Always unplug the instrument AC power cord from the AC power source before:
   a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.

   b. Disconnecting or reconnecting any instrument electrical plug or other electrical connection.

   c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.
      CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

   d. Discharging the picture tube anode.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc.) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc." The H.V. Distribution Box has an internal 400MΩ resistor (bleeder resistor) connected from the high voltage to ground. After power is removed from the instrument the high voltage will discharge through the high voltage bleeder resistor. If the tubes have high voltage after power is removed, then the bleeder resistor is defective or the bleeder ground is disconnected.

3. Discharge the picture tube's anode at any of the R, G, or B outputs on the H.V. Distribution Box only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube high voltage distribution box R, G, or B output, using an insulated handle to avoid personal contact with high voltage.

4. Do not spray chemicals on or near this instrument or any of its assemblies.

5. Unless specified otherwise in these service data, clean electrical contracts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator: 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength).
   CAUTION: This is a flammable mixture. Unless specified otherwise in these service data, lubrication of contacts is not required.

6. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service data might be equipped.

7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat-sinks are correctly installed.

8. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

9. Use with this instrument only the test fixtures specified in this service data.
   CAUTION: Do not connect the test fixture ground strap to any heatsink in this instrument.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

3. Use only a grounded-tip soldering iron to solder or desolder ES devices.

4. Use only can anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES device.

5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range 500°F to 600°F.

2. Use an appropriate gauge of resin-core solder composed of 60 parts tin/40 parts lead.

3. Keep the soldering iron tip clean and well-tinned.

4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch or 1.25 cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.

5. Use the following desoldering technique.
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).

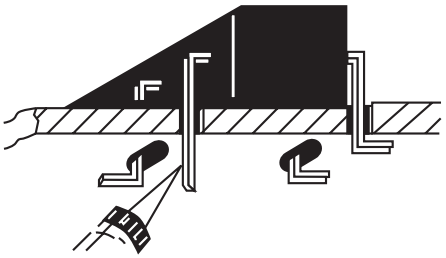
   b. Heat the component lead until the solder melts. Quickly draw away the melted solder with an anti-static, suction-type solder removal device or with solder braid.
      CAUTION: Work quickly to avoid overheating the circuit board printed foil.

6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).

   b. First, hold the soldering iron tip and solder strand against the component lead until the solder melts.

   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
      CAUTION: Work quickly to avoid overheating the circuit board printed foil or components.

   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.



Use Solding Iron to Pry Leads

IC Removal/Replacement

Some Hitachi unitized chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.

2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.

2. Carefully bend each IC lead against the circuit foil pad and solder it.

3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to areas.)

"Small-signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.

2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.

3. Bend into a "U" shape the replacement transistor leads.

4. Connect to replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact, then solder each connection.

Power Output Transistor Devices Removal/Replacements

1. Heat and remove all solder from around the transistor leads.

2. Remove the heatsink mounting screw (if so equipped).

3. Carefully remove the transistor from the circuit board.

4. Insert new transistor in circuit board.

5. Solder each transistor lead, and clip off excess lead.

6. Replace heatsink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.

2. Bend the two remaining leads perpendicularly to the circuit board.

3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.

4. Securely crimp each connection and solder it.

5. Inspect (on the circuit board copper side) the solder joints of the two "original leads". If they are not shiny, reheat them and, if necessary, apply additional solder.

Fuses and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of circuit board hollow stake.

2. Securely crimp leads of replacement component around stake 1/8 inch from top.

3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board, to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board, causing the foil to separate from, or "lift-off," the board. The following guidelines and procedures should be followed whenever this condition is encountered.

In Critical Copper Pattern Areas

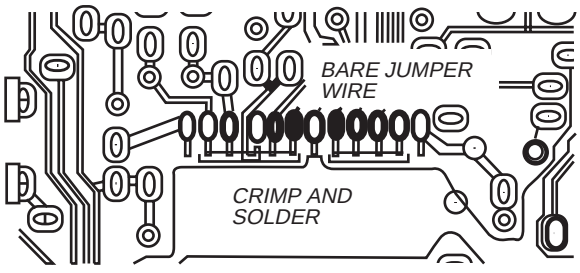
High component/copper pattern density and/or special voltage/current characteristics make the spacing and integrity of copper pattern in some circuit board areas more critical than in others. The circuit foil in these areas is designated as Critical Copper Pattern. Because Critical Copper Pattern requires special soldering techniques to ensure the maintenance of reliability and safety standards, contact your Hitachi personnel.

At IC Connections

To repair defective copper pattern at IC connections, use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections.)

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary.)

2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.



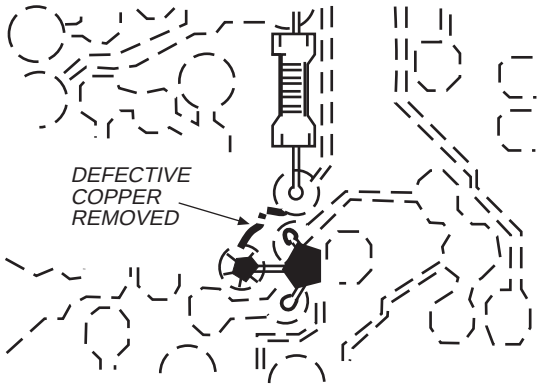
Install Jumper Wire and Solder

3. Bend a small "U" in one end of a small-gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.

4. Route the jumper wire along the path of the cut-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area, and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.



Insulated Jumper Wire

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure hazardous condition will not exist if the jumper wire opens.

2. Trace along the copper pattern from both wire sides of the pattern break and locate the nearest component directly connected to the affected copper pattern.

3. Connect insulated 20-gauge jumper wire from the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so that it does not touch components or sharp edges.

Frequency Synthesis (FS) Tuning Systems

1. Always unplug the instrument AC power cord before disconnecting or reconnecting FS tuning system cables and before removing or inserting FS tuning system modules.

2. The FS tuner must never be disconnected from the FS tuning control module while power is applied to the instrument.

3. When troubleshooting intermittent problems that might be caused by defective cable connection(s) to the FS tuning system, remove the instrument AC power as soon as the defective connector is found and finish confirming the bad connection with a continuity test. This procedure will reduce the probability of electrical overstress of the FS system semi-conductor components.

NOTE: ***These components are affixed with glue. Be careful not to break or damage any foil under the component or at the pins of the ICs when removing. Usually applying heat to the component for a short time while twisting with tweezers will break the component loose.***

Leadless Chip Components (surface mount)

Chip components must be replaced with identical chips due to critical foil track spacing. There are no holes in the board to mount standard transistors or diodes. Some chip capacitor or resistor board solder pads may have holes through the board, however the hole diameter limits standard resistor replacement to 1/8 watt. Standard capacitors may also be limited for the same reason. It is recommended that identical chip components be used. .

Chip resistors have a three digit numerical resistance code -1st and 2nd significant digits and a multiplier. Example: 162 = 1600 or 1.6KΩ resistor, 0 = 0Ω (jumper).

Chip capacitors generally do not have the value indicated on the capacitor. The color of the component indicates the general range of the capacitance.

Chip transistors are identified by a two letter code. The first letter indicates the type and the second letter, the grade of transistor.

Chip diodes have a two letter identification code as per the code chart and are a dual diode pack with either

common anode or common cathode. Check the parts list for correct diode number.

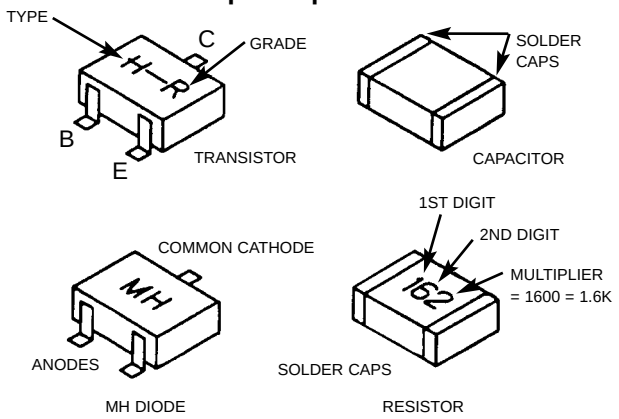
Component Removal

1. Use solder wick to remove solder from component end caps or terminals.
2. Without pulling up, carefully twist the component with tweezers to break the adhesive.
3. Do not reuse removed leadless or chip components since they are subject to stress fracture during removal .

Chip Component Installation

1. Put a small amount of solder on the board soldering pads.
2. Hold the chip component against the soldering pads with tweezers or with a miniature alligator clip and apply heat to the pad area with a 30 watt iron until solder flows. Do not apply heat for more than 3 seconds

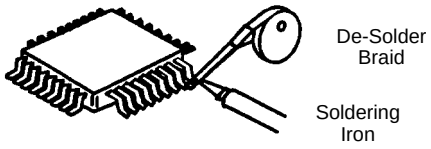
Chip Components



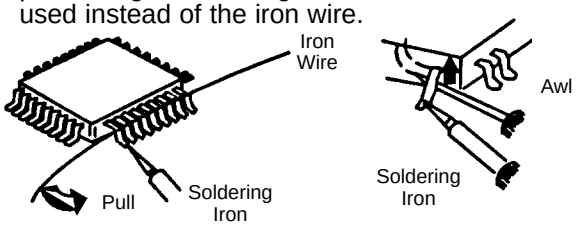
How to Replace Flat-IC —Required Tools—

- Soldering iron
- De-solder braids
- iron wire or small awl
- Magnifier

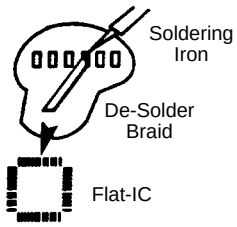
1. Remove the solder from all of the pins of a Flat-IC by using a de-solder braid.



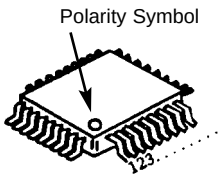
2. Put the iron wire under the pins of the Flat-IC and pull it in the direction indicated while heating the pins using a soldering iron. A small awl can be used instead of the iron wire.



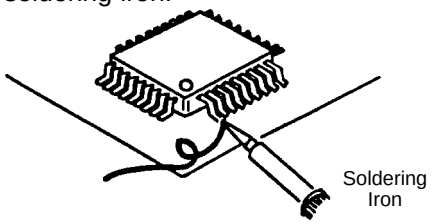
3. Remove the solder from all of the pads of the Fiat-IC by using a de-solder braid.



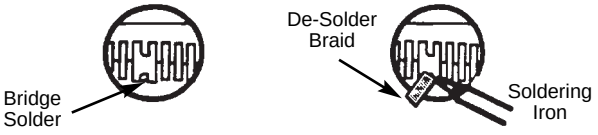
4. Position the new Flat-IC in place (apply the pins of the Flat-IC to the soldering pads where the pins need to be soldered). Properly determine the positions of the soldering pads and pins by correctly aligning the polarity symbol.



5. Solder all pins to the soldering pads using a fine tipped soldering iron.



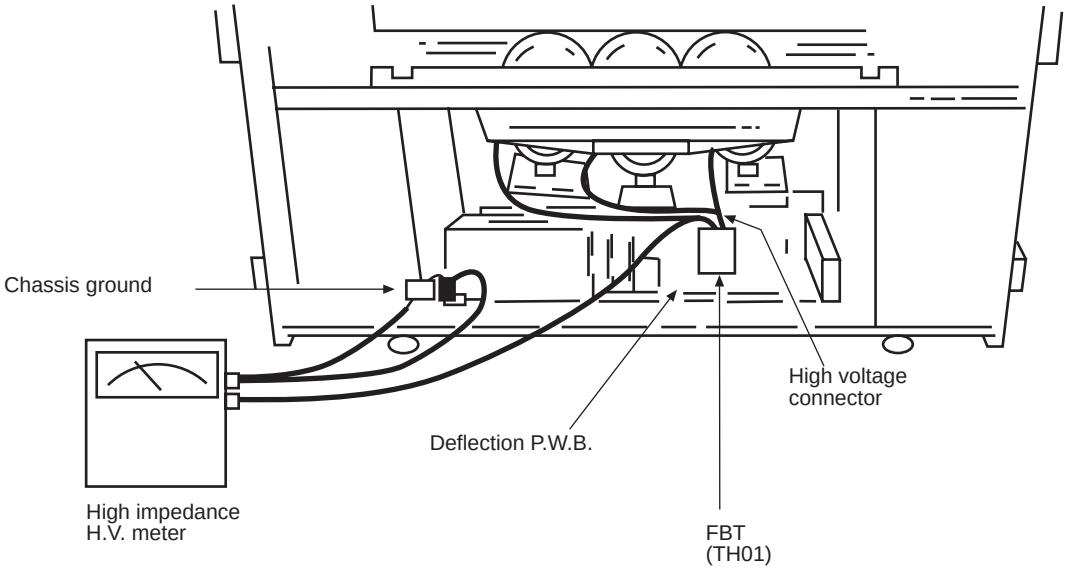
6. Check with a magnifier for solder bridge between the pins or for dry joint between pins and soldering pads. To remove a solder bridge, use a de-solder braid as shown in the figure below.



TECHNICAL CAUTIONS

High Voltage limiter circuit operation check.

1. Turn off TV and connect jig as shown in Figure 2. Adjust jig fully counter-clockwise for minimum resistance.
2. Set the AC input to 120V AC and turn on TV.
3. Confirm test pattern on CRT is a usable picture, then slowly adjust jig until the picture disappears and TV shuts down.
4. When the limiter circuit is operating properly, High Voltage will be less than 35.5 kV at 1.3mA when TV shuts down.
5. Turn off set immediately after checking circuit operation.
6. Unplug set for one minute to reset shutdown circuit. Remove jig and voltmeter.



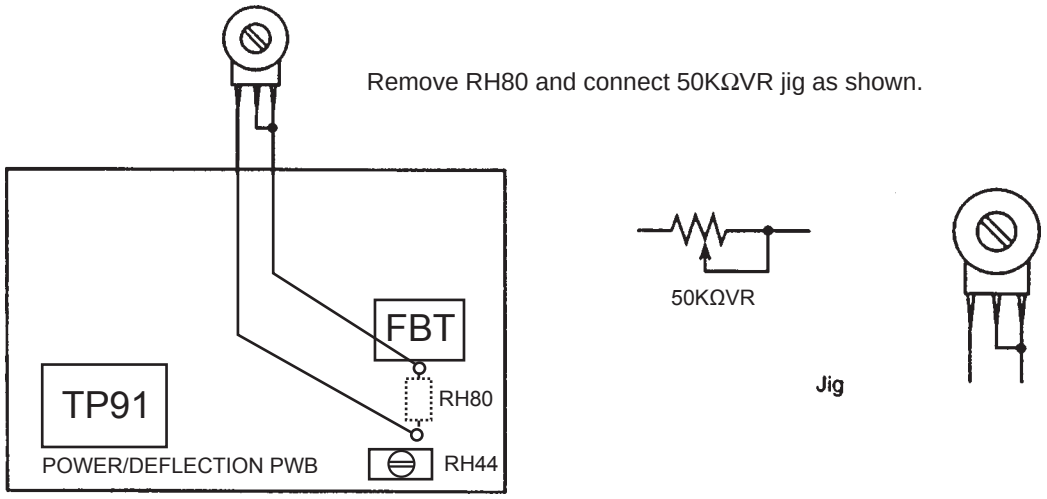


Fig. 2. Deflection/Power P.W.B.

SPECIFICATIONS

Model:	53SWX01W 61SWX01W
Cathode-Ray Tube:	R=P16LFT00RFA(EU) G=P16LFT00HHA(SU) B=P16LFT00BMB(EU)
Power Input:	120 volts AC, 60 Hz
Power Consumption:	273 Watts - Maximum 227 Watts - Operating
Antenna Impedance:	75 Ohm Unbalanced VHF / UHF / CATV

Receiving Channel:

BAND	CH
VHF	2~13
UHF	14~69
EXT. Mid	(A-5)~(A-1), 4+
CATV Mid.	A~I
CATV Super	J~W
CATV Hyper	(W+1)~(W+28)

Intermediate Frequency:	Picture I-F Carrier 45.75 MHz Sound I-F Carrier 41.25 MHz Color Sub Carrier 42.17 MHz
Video Input:	1 Volt p-p, 75 Ohm 1 Volt p-p, 75 Ohm (Y) 0.7 Volt p-p, 75 Ohm, (P_B, P_R)
Video Output:	1 Volt p-p, 75 ohm
Audio Input:	470 mVrms, 47 k Ohm
Stereo Audio Output:	470 mVrms, 1 k Ohm

Audio Output Power:

Front: 12 watts per channel at 10% distortion,
8 ohm Impedance. Max output – 15 watts.
Rear: 12 Watts per channel at 10% distortion,
8 ohm impedance. Max output - 15 watts.
Center: 12 watts per channel at 10% distortion,
8 ohm impedance. Max output - 15 watts.

Anode Voltage:	31.5 ± 1.5kv (1.1±0.2mA)	
Brightness:	**53SWX01W**	200 cd/m^2
	61SWX01W	150 cd/m^2
	(white screen)	
Speakers:	2 Woofers - 5 inch (120 mm) round 2 Tweeters - 2 inch (50 mm) round 2 Center Speakers - 4 inch (100 mm) round	

Dimension:	61SWX01W	53SWX01W
Height (in.)	60 $^{11}/_{32}$	55 $^{3}/_{4}$
Width (in.)	56 $^{15}/_{32}$	49 $^{19}/_{32}$
Depth (in.)	29 $^{17}/_{32}$	29 $^{3}/_{16}$
Weight (lbs.)	274	220

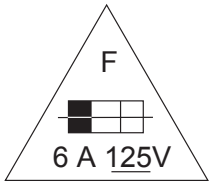
Circuit Board Assemblies:

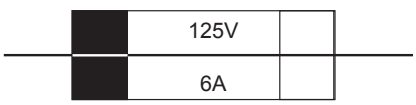
C.P.T. (B) P.W.B.	Terminal P.W.B.
C.P.T. (G) P.W.B.	VM P.W.B.
C.P.T. (R) P.W.B.	Surround P.W.B.
Audio Out P.W.B.	Power/Deflection P.W.B.
2 H P.W.B.	Control P.W.B.
Power Supply P.W.B.	Control Sub P.W.B.
Signal P.W.B.	Sensor Distribution P.W.B.
	Sub Deflection P.W.B.

CIRCUIT PROTECTION

CAUTION: Below is an EXAMPLE only. See Replacement Parts List for details. The following symbol near the fuse indicates fast operation fuse (to be replaced). Fuse ratings appear within the symbol.

Example:



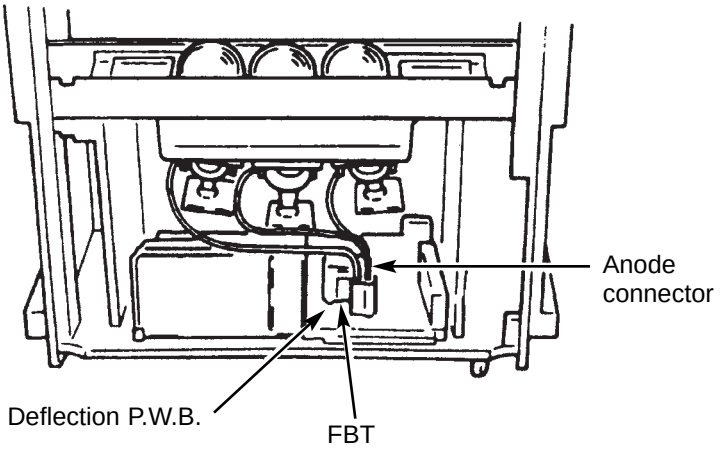


"RISK OF FIRE - REPLACE FUSE AS MARKED"

The rating of fuse F901 is 6.0A - 125V.
Replace with the same type fuse for continued protection against fire.

CAUTIONS WHEN CONNECTING / DISCONNECTING THE HV CONNECTOR

Perform the following when the HV connector (anode connector) is removed or inserted for CPT replacement, etc.



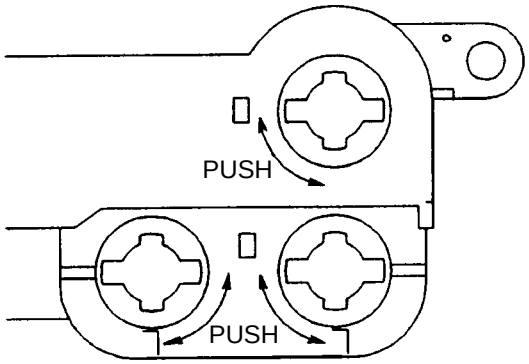


Fig. A

During Removal

1. Roll out silicon cover from FBT's contact area slowly.
2. While turning the connector about 90 degrees following the arrow (0 position), push the connector slightly towards the case. (Fig. A)
3. Remove the connector slowly by pulling it away from the case.

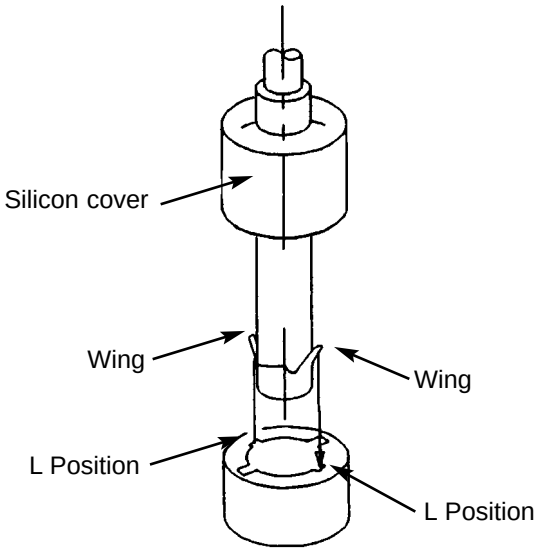


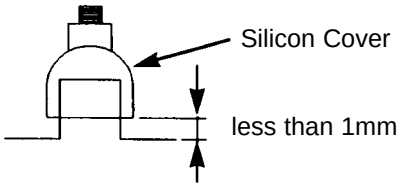
Fig. B

During Insertion

1. Please refer to direction for insertion as shown in Fig. B (L position). Insert connector until "CLICK" sound is heard.
2. Make sure the connector is pressed right in, so that it has a good contact with the spring.
3. Confirm the contact by pulling the connector slightly. (Don't pull hard because it may damage the connector).
4. Cover the high voltage output by carefully pushing silicon cover onto it. (Don't turn the connector).

(REMARK)

1. Make sure the silicon cover is covering the high voltage output.



GENERAL INFORMATION

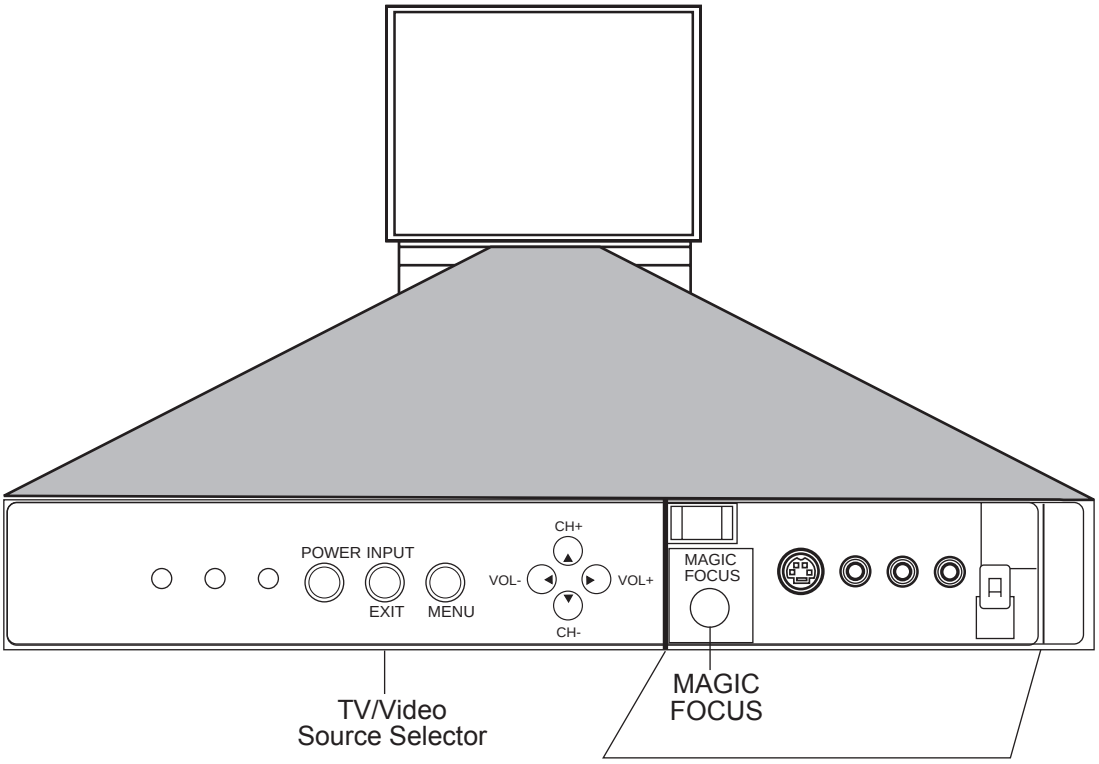


Fig. 3. Front Control Panel

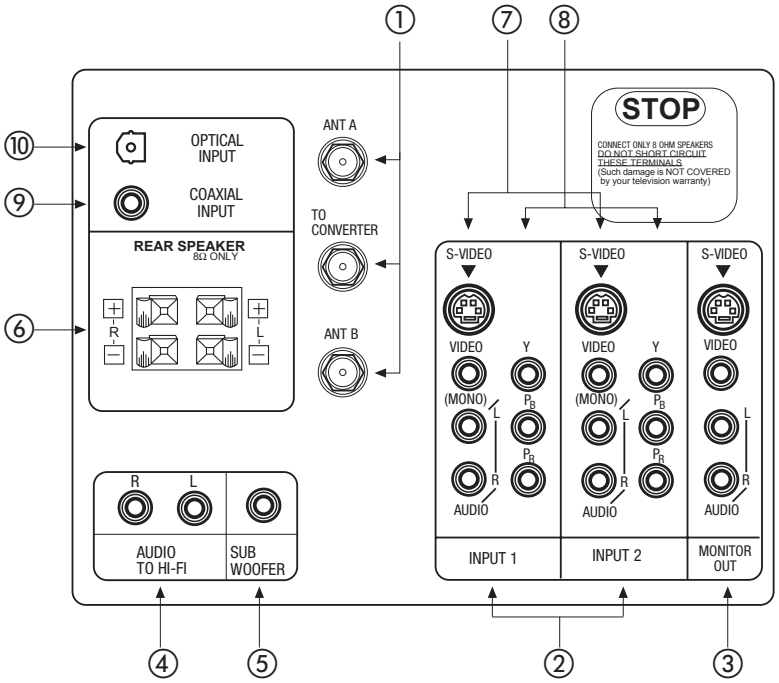


Fig. 4. Rear Panel Jacks

① Antenna Input/Output

② Audio/Video Inputs 1, 2

③ Monitor Out

④ Audio to Hi-Fi

⑤ Sub Woofer

⑥ Rear Speaker Output Terminals

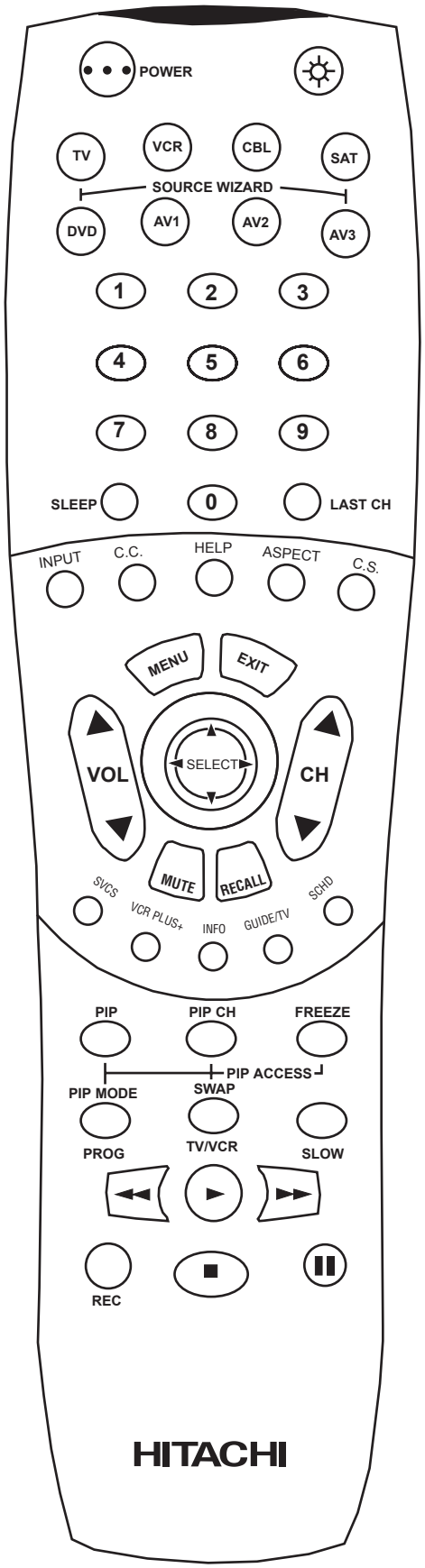
⑦ S-Video Inputs 1 and 2

⑧ Component Inputs Y-P_BP_R

⑨ COAXIAL INPUT

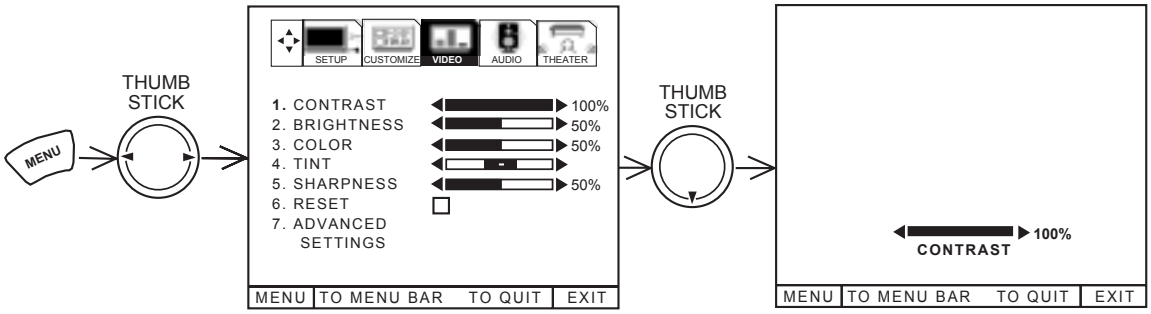
⑩ OPTICAL INPUT

USE THE REMOTE TO CONTROL YOUR TV



CUSTOMIZED PICTURE AND SOUND ADJUSTMENTS

Select VIDEO to adjust picture settings and improve picture quality.

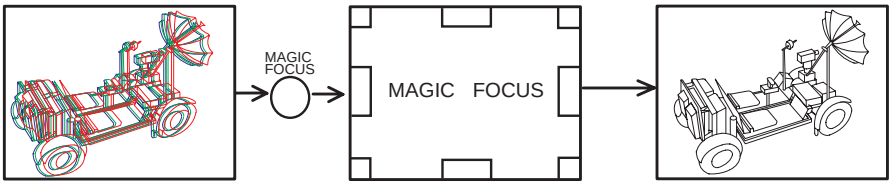


Use the THUMB STICK ▲ or ▼ to highlight the function to be adjusted.
Press the THUMB STICK ◄ or ► to adjust the function.
Press EXIT to quit menu.

CONTRAST	Use this function to change the contrast between black and white levels in the picture. This adjustment will only affect the picture when ADVANCED SETTINGS ULTRA AI is OFF.
BRIGHTNESS	Use this function to adjust overall picture brightness.
COLOR	Use this function to adjust the level of color in the picture.
TINT	Use this function to adjust flesh tones so they appear natural. (See notes below.)
SHARPNESS	Use this function to adjust the amount of fine detail in the picture.
RESET	When RESET is selected, press down on THUMB STICK ► to return video adjustments to factory preset conditions.

NOTE:
1. It may be necessary to adjust TINT to obtain optimum picture quality when using the COMPONENT: Y-P_BP_R Input jacks.
2. If you are using the COMPONENT VIDEO input jacks (Y-P_BP_R) and notice that the TINT and COLOR are abnormal, check to make sure that PICTURE FORMATS-COMPONENT COLOR TYPE is set properly.

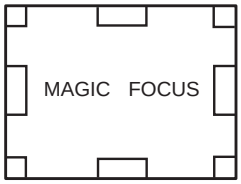
Press the front panel MAGIC FOCUS button momentarily for auto setup.



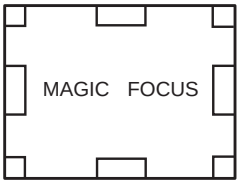
To adjust manually, press and hold the MAGIC FOCUS button until CENTER MODE or STATIC MODE is displayed. Press EXIT on the remote to select red or blue. Green is stationary. Use the THUMB STICK to adjust. Center mode only adjusts the center section. Static mode adjusts the entire screen. **Note:** This new data is in RAM memory only and will be lost if the MAGIC FOCUS button is pressed again.

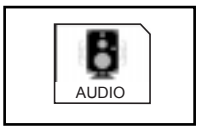
Depending upon input signal, it may be necessary to activate MAGIC FOCUS twice. While viewing a 480i, 480P, or 720P signal the convergence will be corrected. However, when you change to a 1080i input signal you will need to activate MAGIC FOCUS again.

with 480i, 480P, or 720P input signal

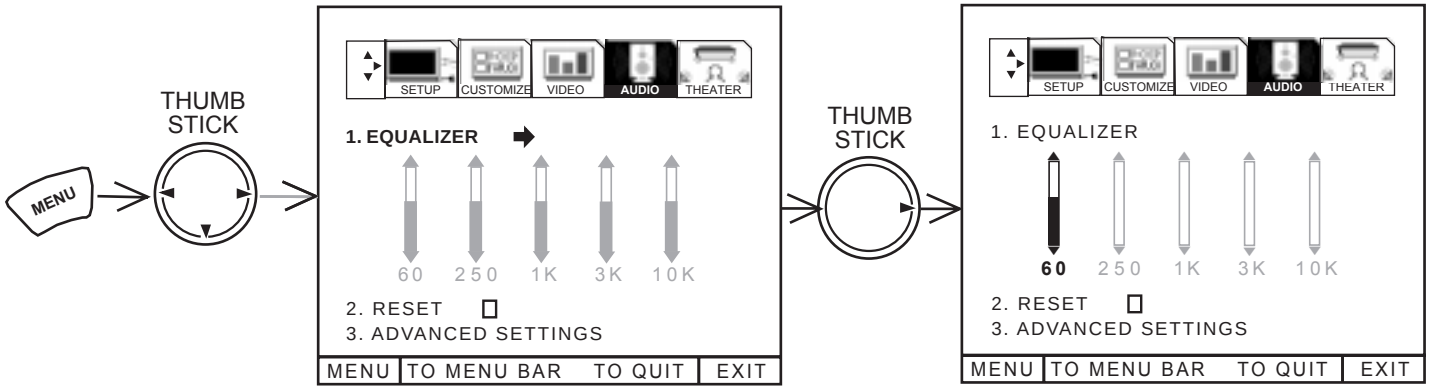


with 1080i input signal





Select AUDIO to adjust the TV to your preference and to improve the sound quality.

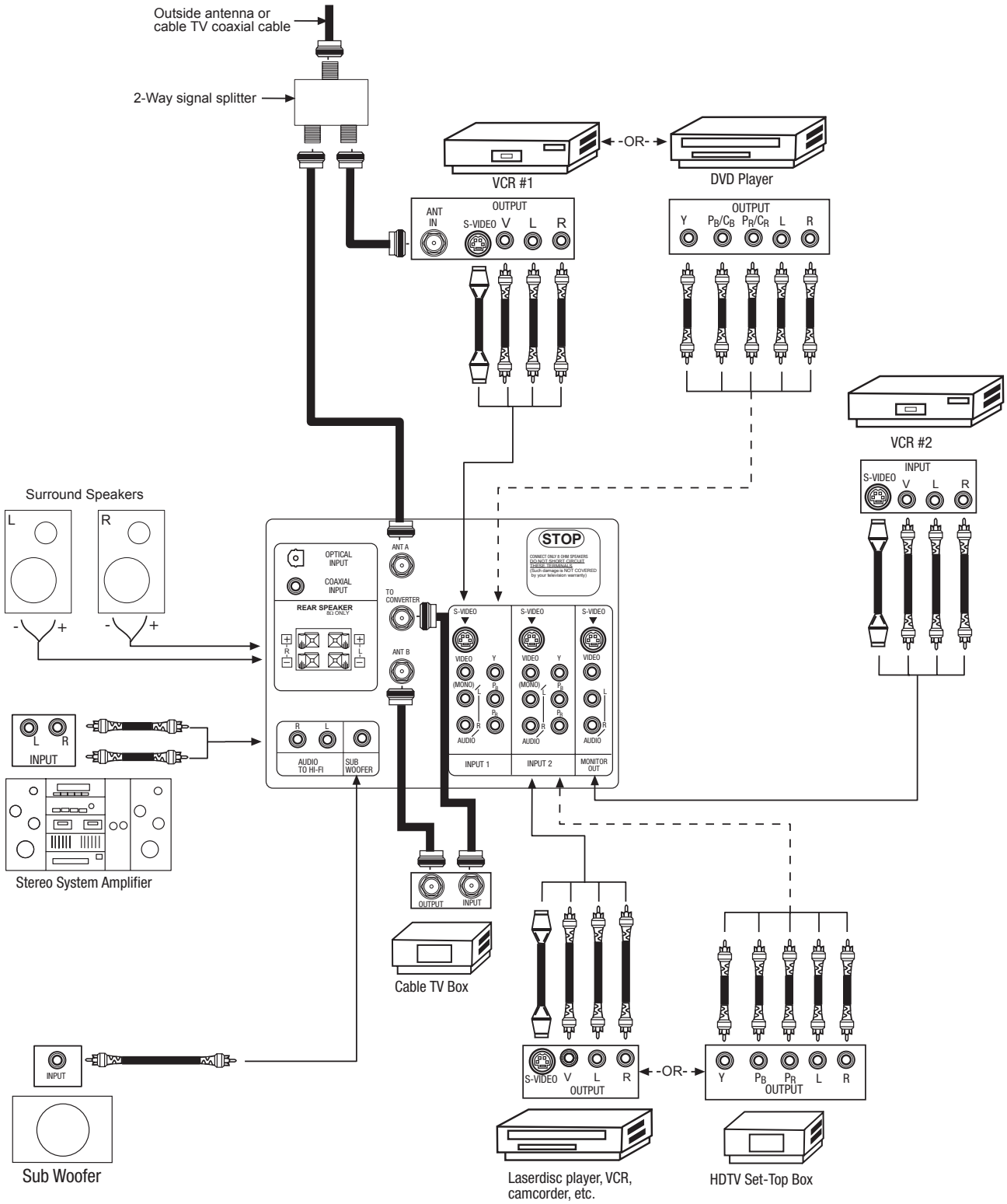


Use THUMB STICK ▲ or ▼ to highlight the function to be adjusted.
When EQUALIZER is highlighted, press THUMB STICK ▶ to select the frequency you would like to adjust (60, 250, 1K, 3K or 10K).
Then use THUMB STICK ▲ or ▼ to adjust selected frequency.
When RESET is highlighted, press down on THUMB STICK to reset EQUALIZER settings to factory conditions.
Press EXIT to quit menu.

NOTE: When DYNAMIC BASS is turned ON, the 60Hz level signal will automatically be increased.

REAR PANEL CONNECTIONS

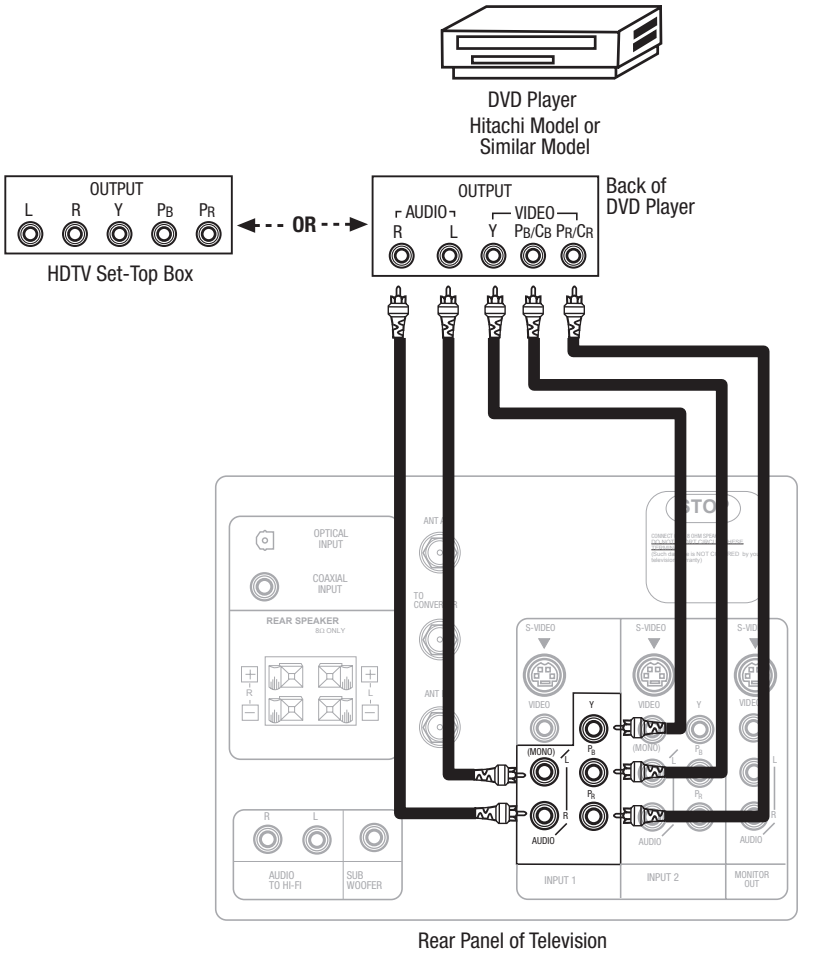
TYPICAL FULL-FEATURE SETUP



NOTE:
1. Connect only 1 component to each input jack.
2. Follow connections that pertain to your personal entertainment system.

CONNECTING A STEREO LASERDISC/DVD PLAYER OR HDTV SET TOP BOX TO INPUT 1 OR 2 COMPONENT: Y-P_BP_R.

1. Connect the cable from the Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (Y) jack, as shown on the TV set below.
2. Connect the cable from the C_B/P_B OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT ($P_{B)}$ jack.
3. Connect the cable from the C_R/P_R OUT or R-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_R) jack.
4. Connect the cable from the AUDIO OUT R of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/R) jack.
5. Connect the cable from the AUDIO OUT L of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/L) jack.
6. Press the INPUT button, to view the program from the Laserdisc/DVD player or HDTV set top box. The VIDEO icon disappears automatically after approximately eight seconds.
7. Press the INPUT button to return to the previous channel.



Rear Panel of Television

NOTE: Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.

CONNECTING EXTERNAL VIDEO SOURCES

CONNECTING A DVD PLAYER OR HDTV SET TOP BOX WITH DOLBY DIGITAL OPTICAL OUTPUT TO INPUT 1 or 2
COMPONENT: Y-P_BP_R

1. Connect the cable from the Y OUT of the DVD player or HDTV Set Top Box to the INPUT (Y) jack, as shown on the TV set below.

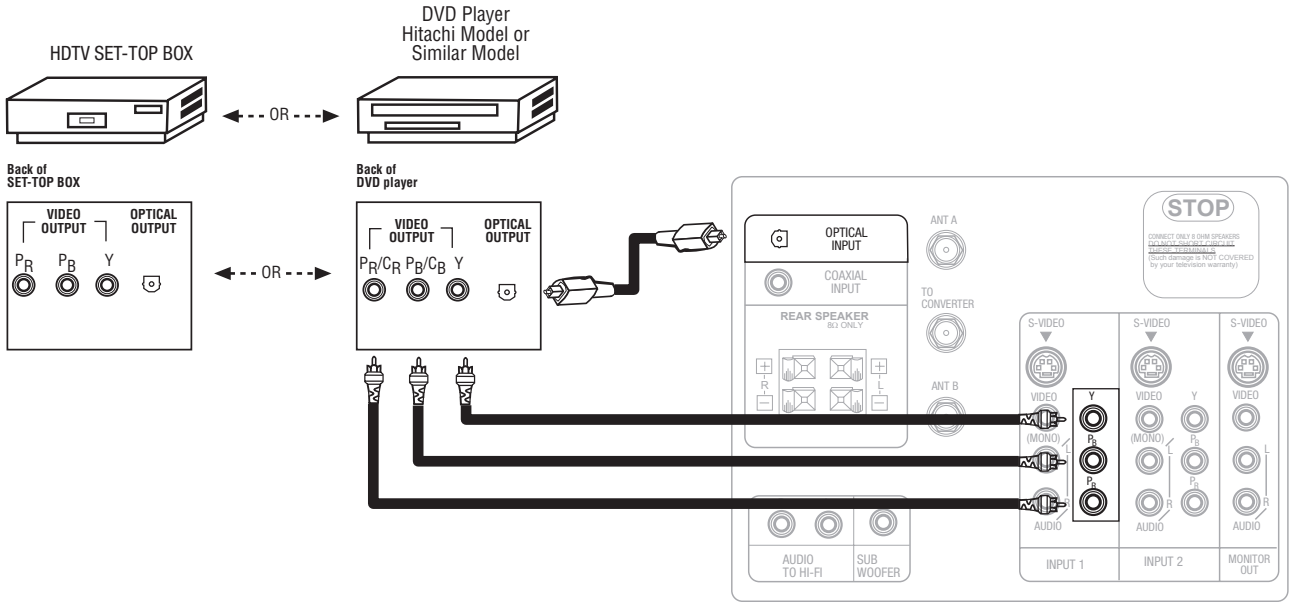
2. Connect the cable from the C_B/P_B OUT or B-Y OUT of the DVD player or HDTV Set Top Box to the INPUT (P_B) jack.

3. Connect the cable from the C_R/P_R OUT or R-Y OUT of the DVD player or HDTV Set Top Box to the INPUT (P_R) jack.

4. Connect the cable from the OPTICAL OUTPUT of the DVD player or HDTV Set Top Box to the OPTICAL INPUT jack.

5. Press the INPUT button, to view the program from the DVD player or HDTV Set Top Bx. The VIDEO icon disappears automatically after approximately eight seconds.

6. Press the INPUT button to return to the previous channel.



NOTES:
1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
2. If your device is connected to INPUT 1 component jacks, make sure to select VID1-OPTICAL from the THEATER-INPUT SOURCE menu. If it is connected to INPUT 2 component jacks, make sure to select VID2-OPTICAL from the THEATER-INPUT SOURCE menu.

CONNECTING A DVD PLAYER OR HDTV SET TOP BOX WITH DOLBY DIGITAL COAXIAL OUTPUT TO INPUT 1 or 2
COMPONENT: Y-P_BP_R

1. Connect the cable from the Y OUT of the DVD player or HDTV Set Top Box to the INPUT (Y) jack, as shown on the TV set below.

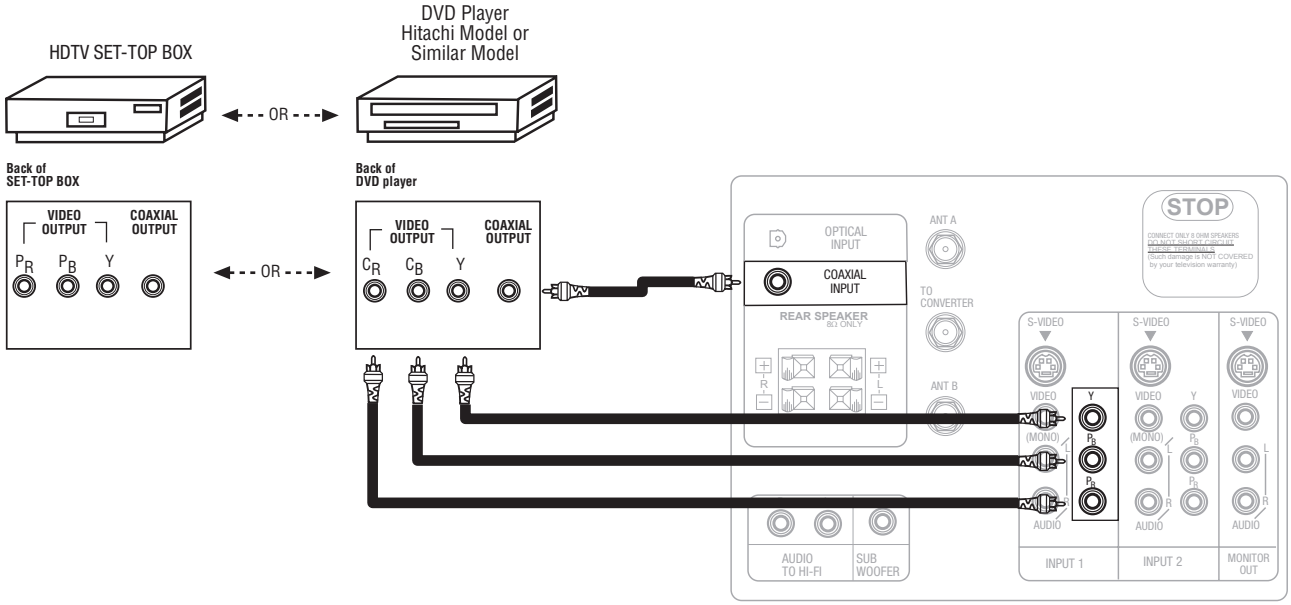
2. Connect the cable from the C_B/P_B OUT or B-Y OUT of the DVD player or HDTV Set Top Box to the INPUT (P_B) jack.

3. Connect the cable from the C_R/P_R OUT or R-Y OUT of the DVD player or HDTV Set Top Box to the INPUT (P_R) jack.

4. Connect the cable from the COAXIAL OUTPUT of the DVD player or HDTV Set Top Box to the COAXIAL INPUT jack.

5. Press the INPUT button, to view the program from the DVD player or HDTV Set Top Bx. The VIDEO icon disappears automatically after approximately eight seconds.

6. Press the INPUT button to return to the previous channel.



NOTE:

1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.

2. If your device is connected to INPUT 1 component jacks, make sure to select VID1-COAXIAL (DIGITAL) from the THEATER-INPUT SOURCE menu. If it is connected to INPUT 2 component jacks, make sure to select VID2-COAXIAL (DIGITAL) from the THEATER-INPUT SOURCE menu.

FEATURE INFORMATION

As the digital era dawns, Hitachi has models that provide the best possible images today...and tomorrow. Our HDTV Ready SWX model incorporates new Flex Converter technology to display a high quality 720P (high definition scanning) or 480P (progressive scanning) image; this same circuitry enables it to accept a full 1080i HDTV signal from a digital set-top box now or in the future.

FLEX CONVERTER TECHNOLOGY

With current analog broadcasts, there is just one level of picture quality. In the new age of digital TV, there will be several levels. The highest, called HDTV, can be as high as 1080i.The next level, called HDTV, can be 720P. The standard level, SDTV, can be 480P or 480i. Hitachi has developed the Flex Converter, advanced circuitry that allows your UltraVision SWX series television to produce true 1080i HDTV resolution with an HDTV set-top box, It converts digital 720P signals to 480P and also converts analog 480i signals to the higher-quality 480P signals with no scan lines or flicker. The SWX needs a set-top box to receive any Digital Signal.

COMPONENT VIDEO

Component Video inputs accept separate blue, red & B/W signals from a high resolution digital source as DVD or digital set-top box to provide a higher resolution picture.

3DYC (DIGITAL 3DYC COMB FILTER)

The Digital 3DYC Comb Filter analyzes three lines of information from a single video frame as well as lines from adjacent frames. This technology eliminates the flickering that a detailed pattern or scene would normally cause, for the cleanest, neatest picture possible.

PROGRESSIVE SCANNING

A standard TV uses Interlaced Scanning where each frame of video is broken into two fields, each providing alternating scan lines. This can leave noticeable scan lines and cause flickering. With Progressive Scanning, complete frames are displayed for a smoother picture with no scan lines and no flicker. This allows you to get the optimal picture quality from today’s high resolution digital sources such as DVD or a digital set-top box.

SERVICE ADJUSTMENTS

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***IMPORTANT**

For many of the above adjustments, it is necessary to have an HDTV (1080i or 720P) signal generator, SDTV (480P) signal generator, as well as the usual NTSC (480i) signal generator.

Hitachi recognizes that few companies offer HDTV or SDTV signal generators and that the cost of these generators is sometimes prohibitive. For this reason, we suggest the use of a set-top-box for HDTV and SDTV adjustments. Usually, there is a switch on the set-top-box which enables it to output HDTV (1080i or 720P) or SDTV (480P) signals even with no input. In this case, the sync is automatically detected by the TV (at the Y-$P_B P_R$ Inputs on the rear panel).

1. ASSEMBLED P.W.B. ADJUSTMENT

1.1 Memory Initialization

Adjustment Procedure

(1) Press and hold INPUT key on Control Panel and then press POWER key on control panel to access I²C adjustment mode.

(2) Receive signal on main picture. (NTSC, SDTV or HDTV).
Some menu pages have I²C adjustments for SDTV and HDTV. The set will automatically allow you to set these items only when a SDTV or HDTV signal is input to the COMPONENT jacks on the back of the TV. See table below.

(3) Check the OSD according to table on page 27, using THUMB STICK ▲, ▼ on Remote Control.
*: Adjustable Data
Others: Fixed Data (be careful not to change)

(4) Press MENU key to exit I²C ADJUST mode.

	SIGNAL	ASPECT	fH	COLOR
HDTV	1080i	16:9	33.75kHz	Y P_BP_R
HDTV	720P	16:9	45kHz	Y P_BP_R
SDTV	480P	4:3/16:9	31.5kHz	Y C_BC_R
NTSC	480i	4:3/16:9	15.75kHz	Y C_BC_R
NTSC	NTSC	4:3	15.75kHz	--

NOTE: (1) If there is a different value than shown in table above, for fixed data, adjust it using THUMB STICK ◄, ► (only in this case).

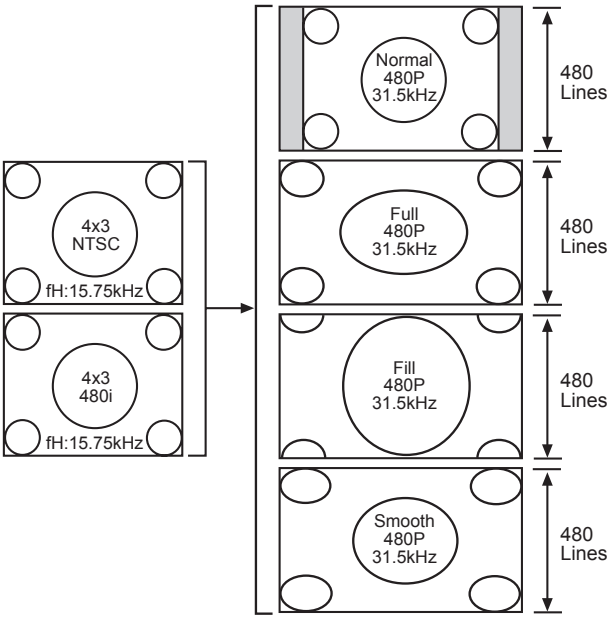
(2) When exchanging microprocessor and TV is turned on for first time, it requires initialization of Memory Initial of I²C adjustment menu.

(3) FIRST TIME TOUR can be turned off at first power on by pressing MENU while FIRST TIME TOUR is running.

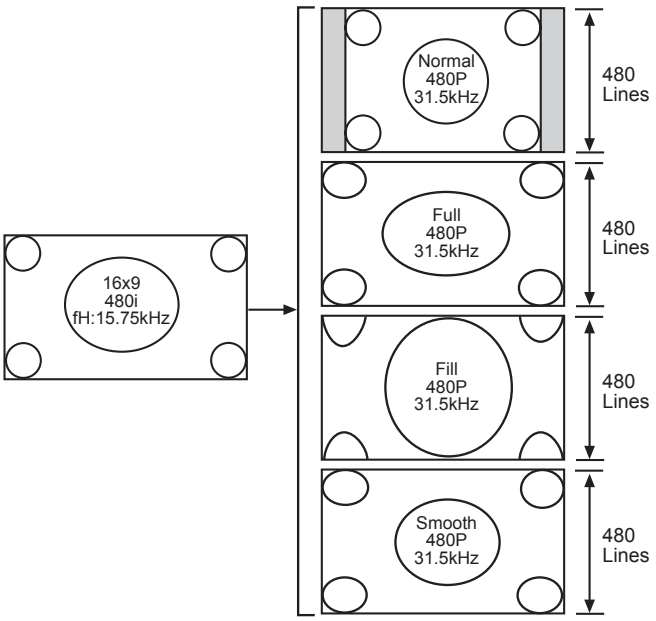
BACK TO ADJUSTMENTS

DISPLAY FORMAT OF COMPONENT VIDEO TERMINAL (Y-C_BC_R/Y-P_BP_R)
SDTV SIGNAL FORMAT: SMPTE-170M
HDTV SIGNAL FORMAT: ITU-R709, SMPTE-274M
A. NORMAL MODE (16X9 MODEL)

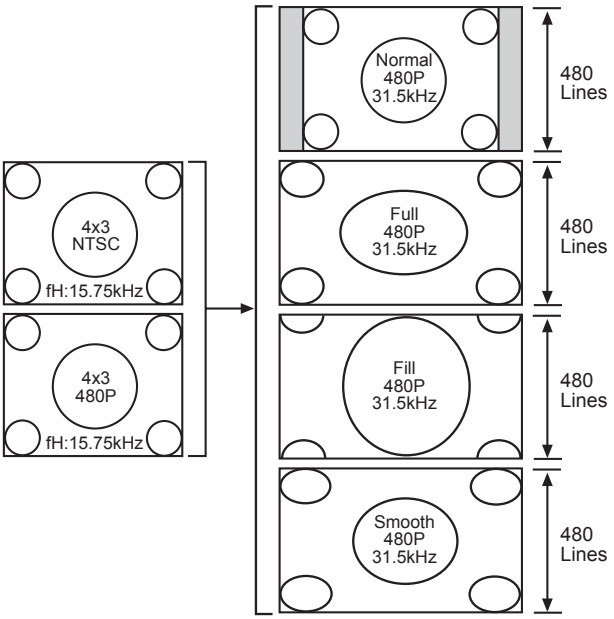
(1) NTSC/SDTV: 480i 4X3 (15.75kHz) ⟶ 480P 16x9 (31.5kHz)
Screen Format: Normal, Full, Fill, Smooth



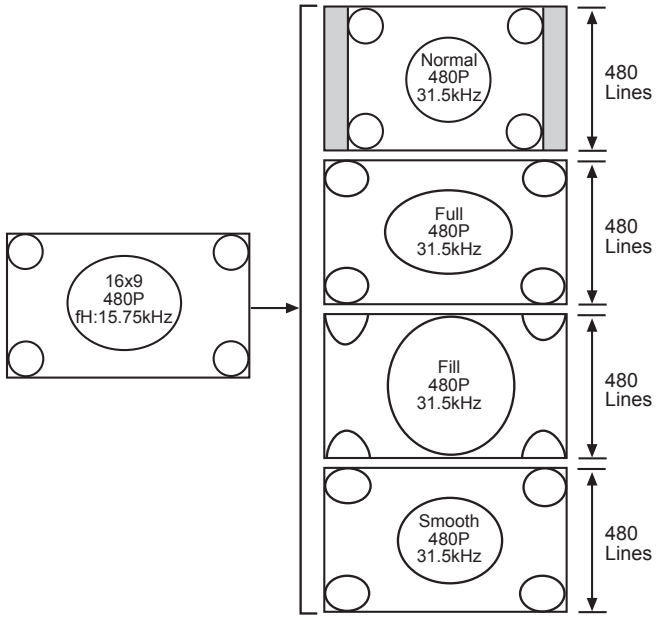
(2) SDTV: 480i 16x9 (15.75kHz) ⟶ 480P 16x9 (31.5kHz)
Screen Format: Normal, Full, Fill, Smooth



(3) SDTV: 480P 4x3 (31.5kHz) ⟶ 480P 16x9 (31.5kHz)
Screen Format: Normal, Full, Fill, Smooth

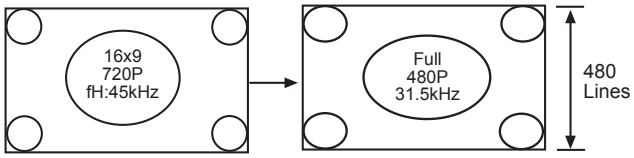


(4) SDTV: 480P 16x9 (31.5kHz) ⟶ 480P 16x9 (31.5kHz)
Screen Format: Normal, Full, Fill, Smooth

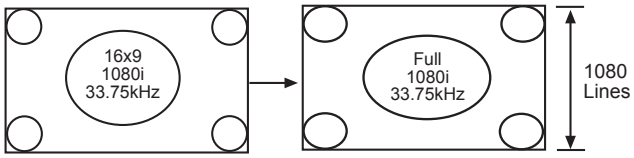


BACK TO ADJUSTMENTS

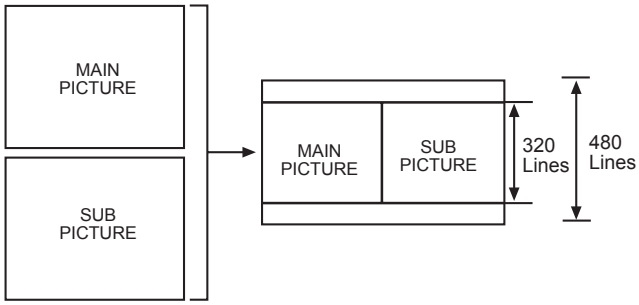
(5) HDTV: 720P 16x9 (45kHz) → 480P 16x9 (31.5kHz)
Screen Format: Full only



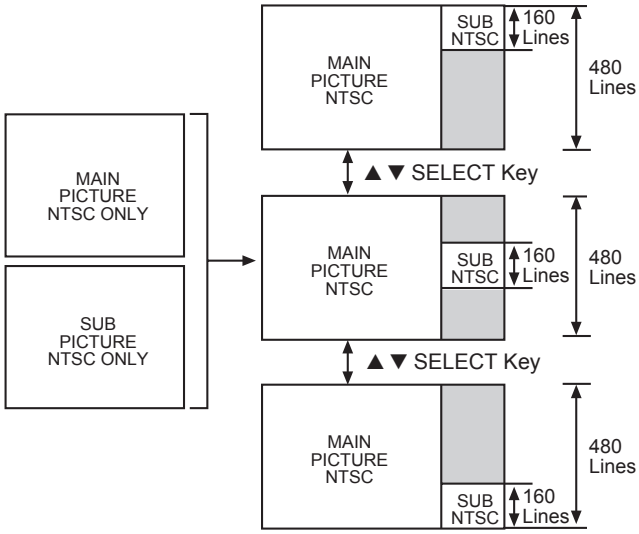
(6) HDTV: 1080i 16x9 (33.75kHz) →1080i 16x9 (33.75kHz)
Screen Format: Full only



B. SPLIT MODE ALL SIGNAL → 480P 4X3 (31.5kHz)

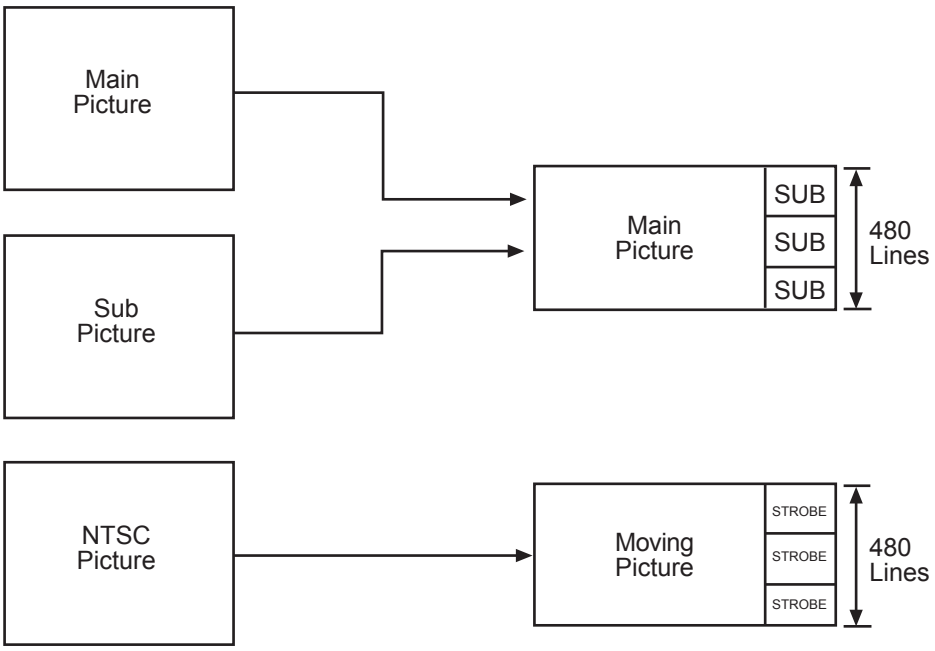


C. SINGLE MODE NTSC ONLY → 480P 4.3 (31.5kHz)



BACK TO ADJUSTMENTS

D. SURF/STROBE MODE NTSC ONLY → 480P 4x3 (31.5kHz)



BACK TO ADJUSTMENTS

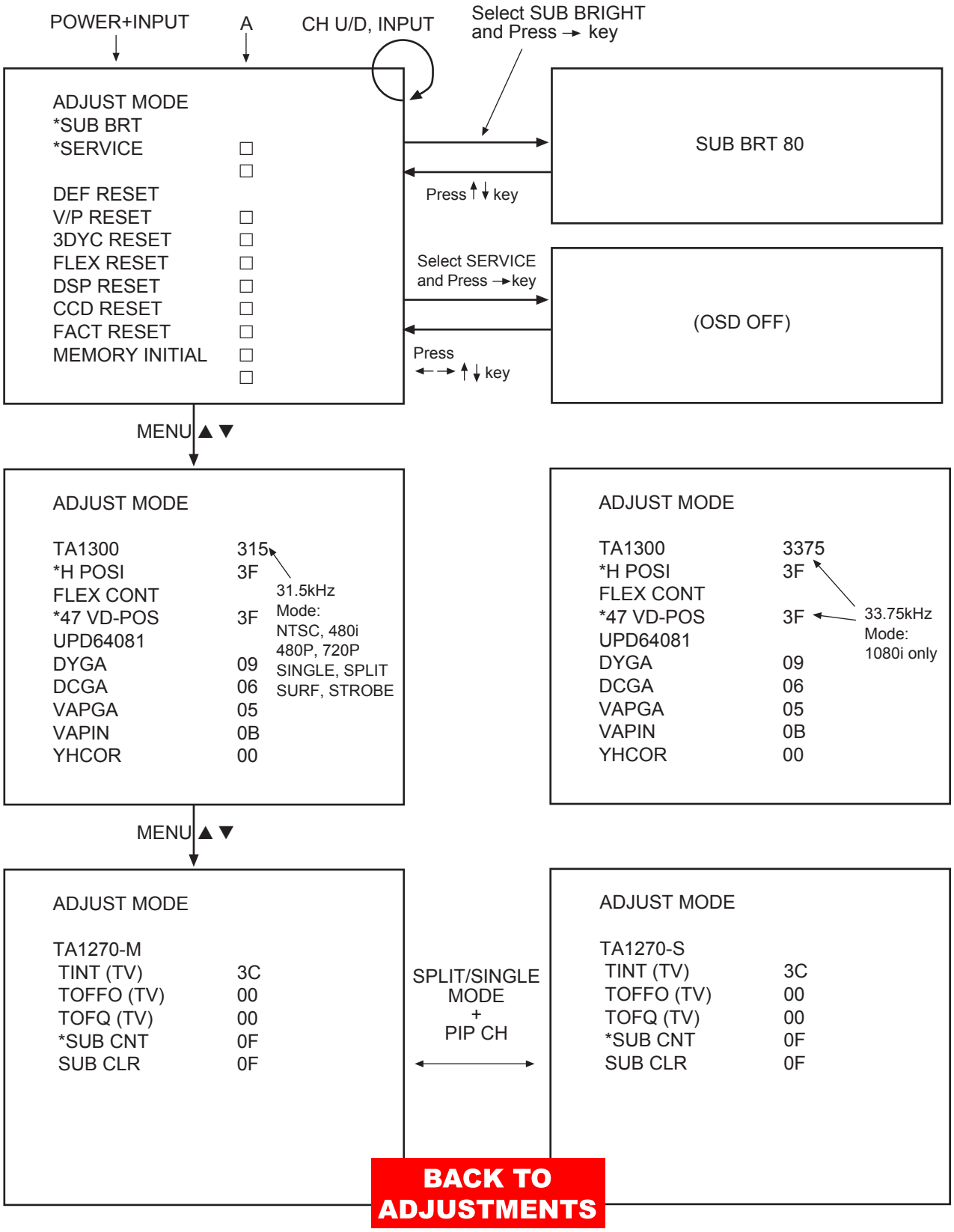
I²C Parameter List

(1) Adjust Mode OSD

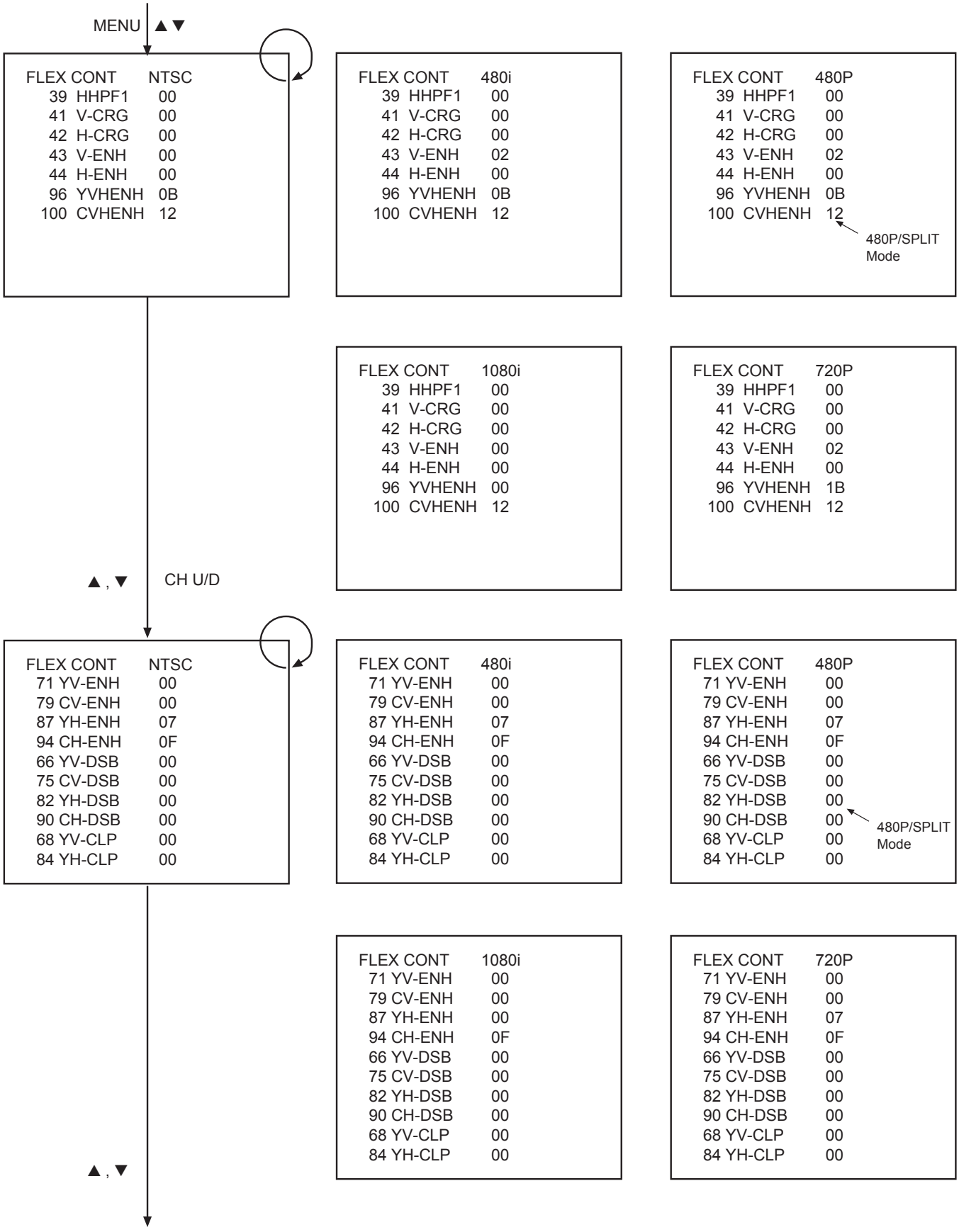
Press [POWER] + [INPUT] keys of front control panel.

*: ADJUSTABLE ITEM

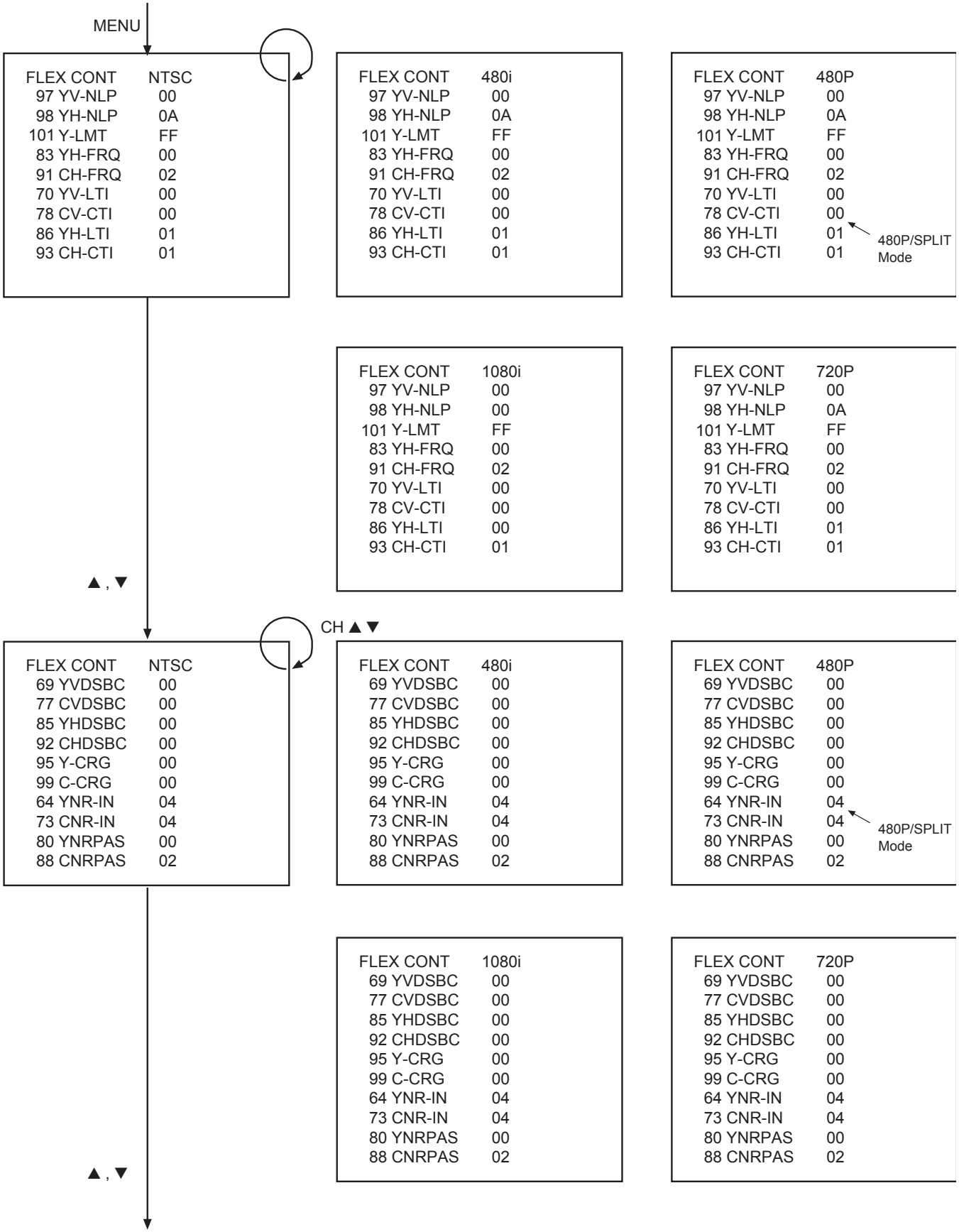
EXIT I2C ADJUST MODE
POWER on/off.



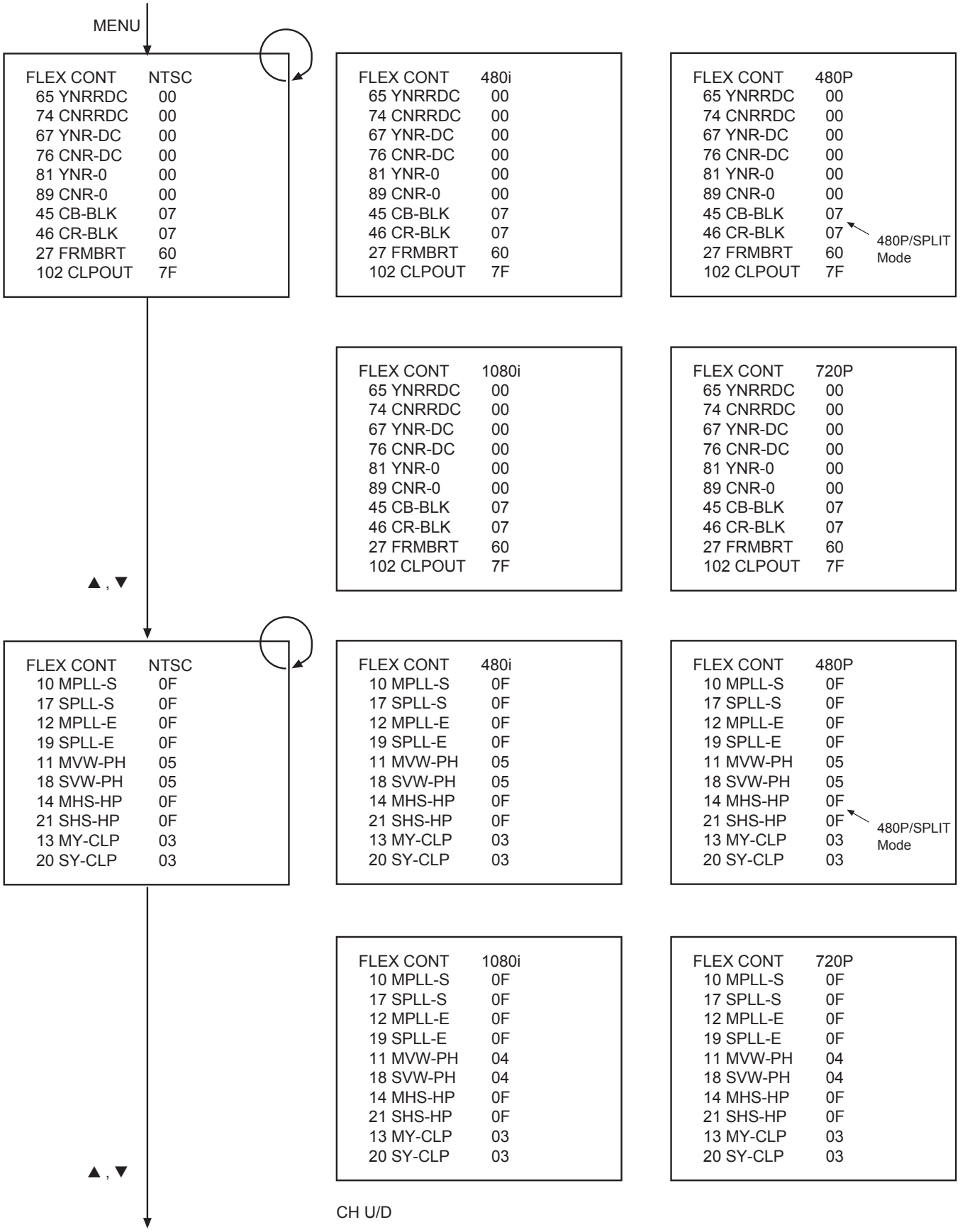
BACK TO ADJUSTMENTS



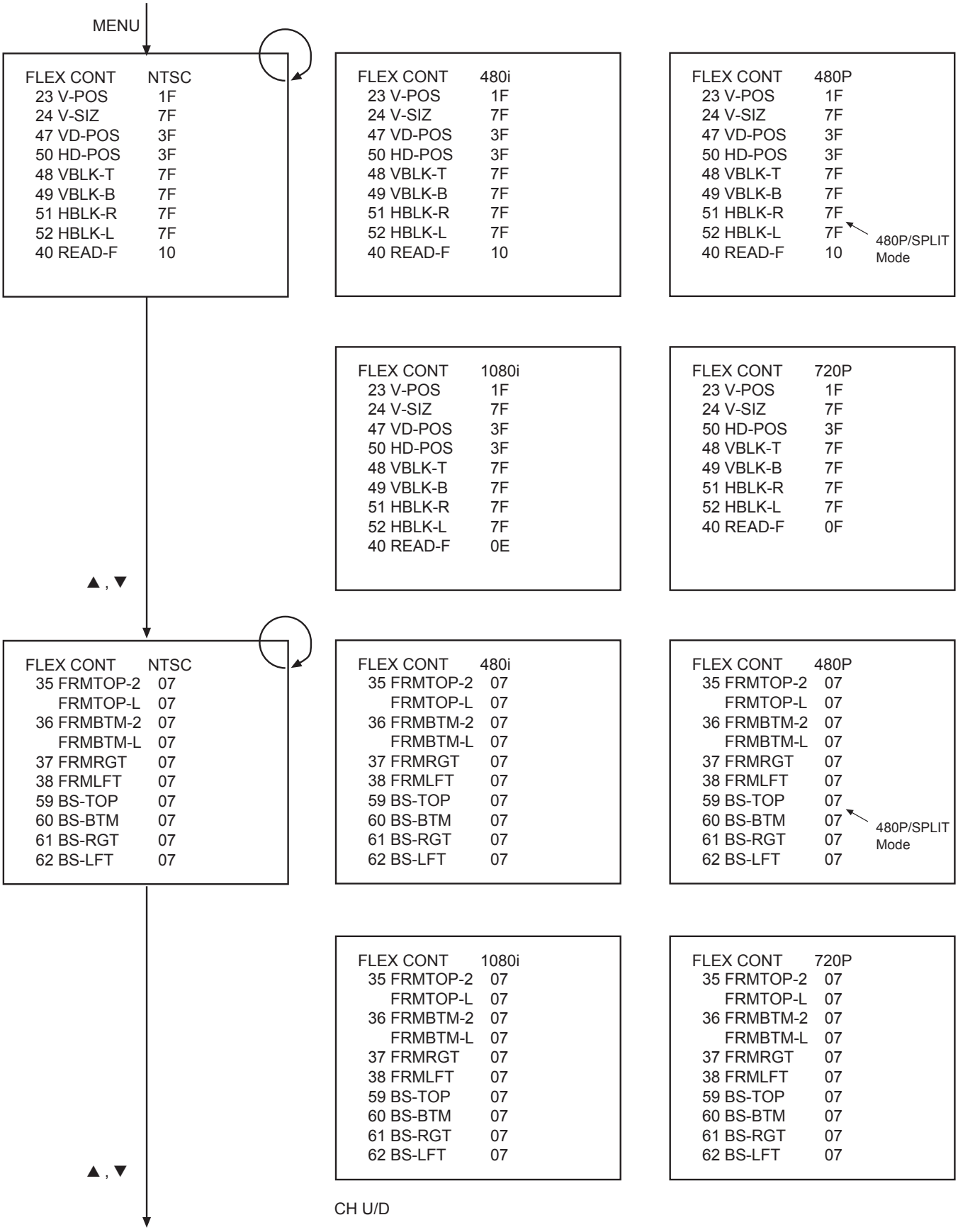
BACK TO ADJUSTMENTS



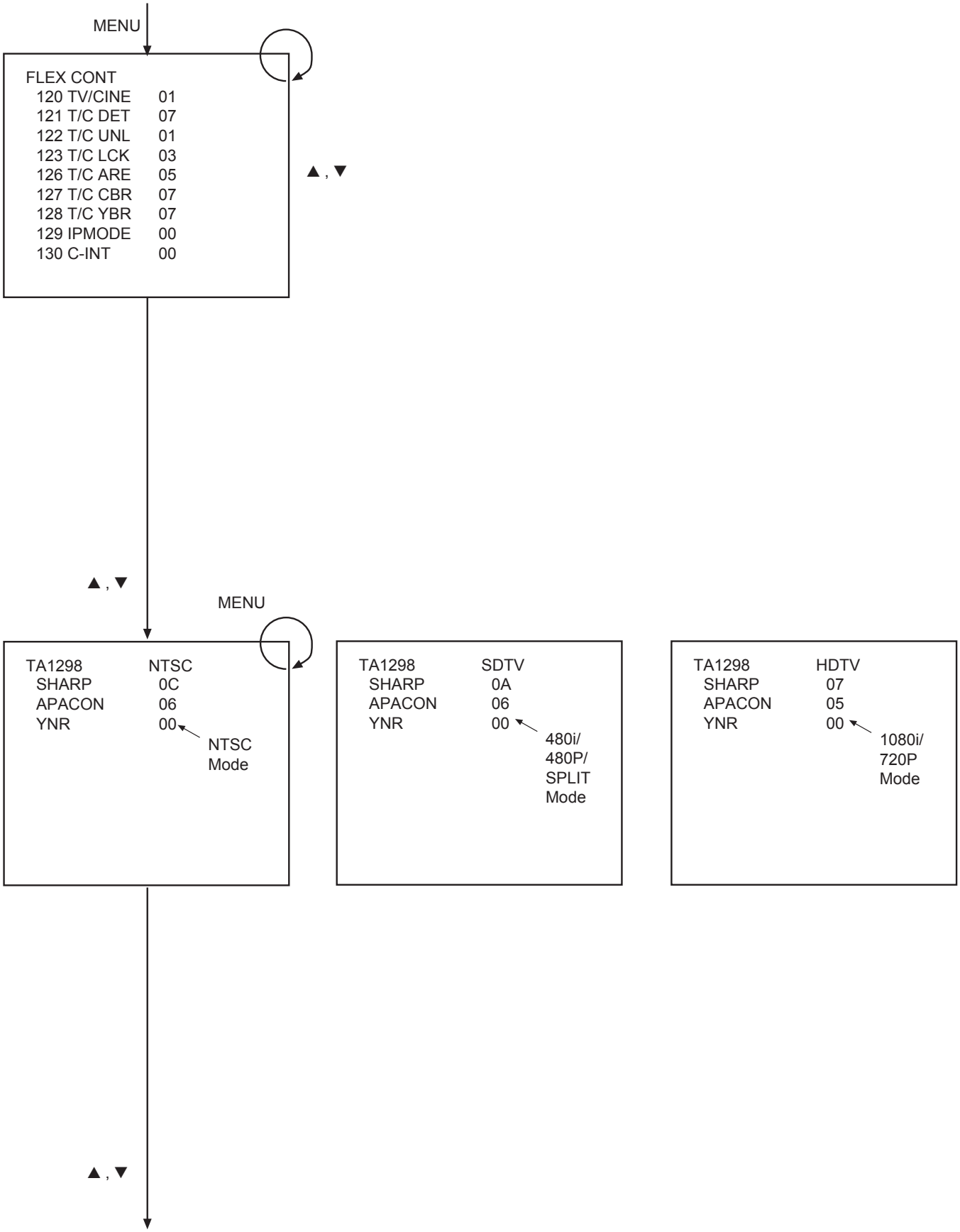
BACK TO ADJUSTMENTS



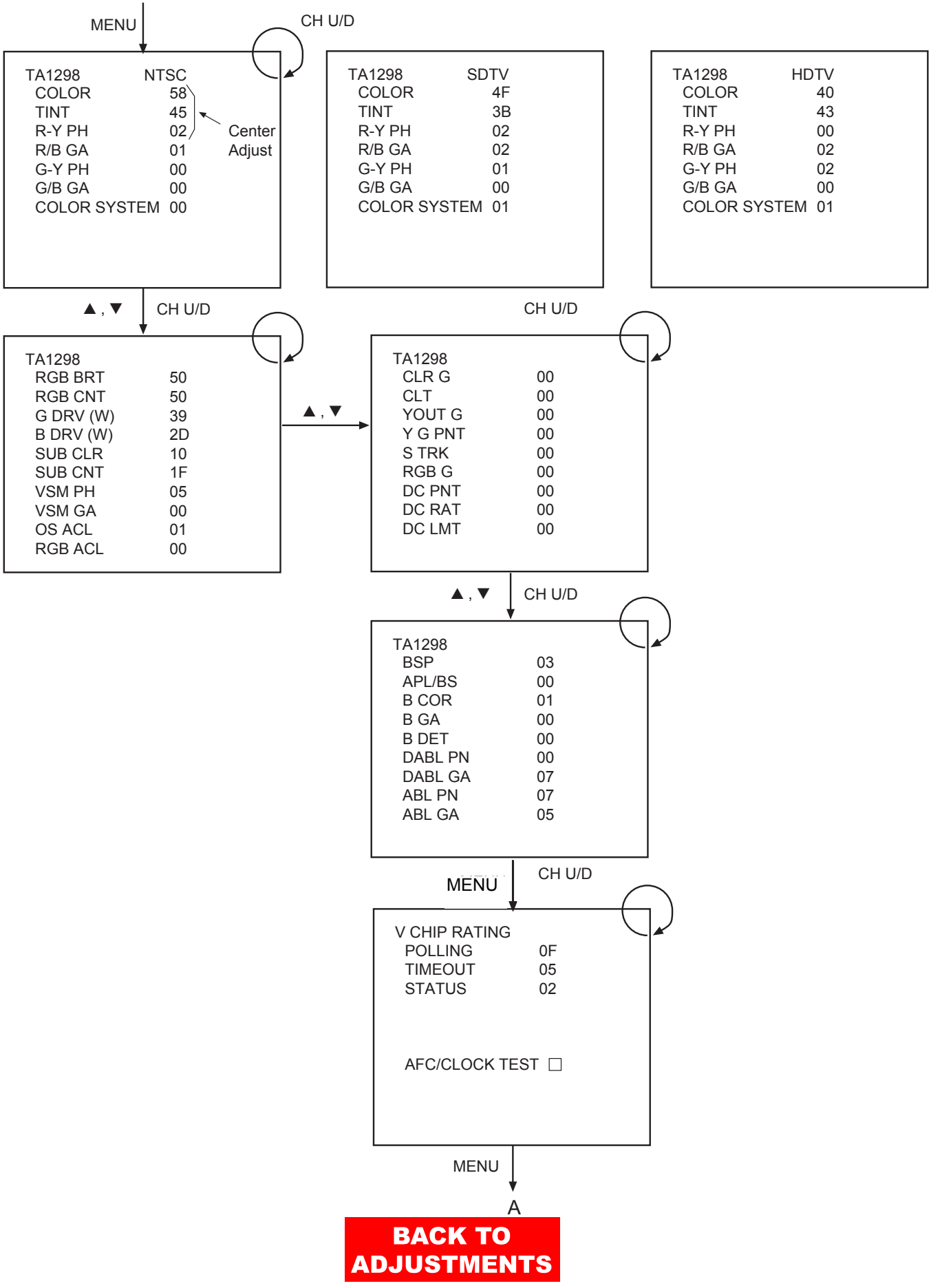
BACK TO ADJUSTMENTS



BACK TO ADJUSTMENTS



BACK TO ADJUSTMENTS


MENU
CH U/D
TA1298 NTSC
COLOR 58
TINT 45
R-Y PH 02
R/B GA 01
G-Y PH 00
G/B GA 00
COLOR SYSTEM 00
Center Adjust
TA1298 SDTV
COLOR 4F
TINT 3B
R-Y PH 02
R/B GA 02
G-Y PH 01
G/B GA 00
COLOR SYSTEM 01
TA1298 HDTV
COLOR 40
TINT 43
R-Y PH 00
R/B GA 02
G-Y PH 02
G/B GA 00
COLOR SYSTEM 01
▲ , ▼
CH U/D
TA1298
RGB BRT 50
RGB CNT 50
G DRV (W) 39
B DRV (W) 2D
SUB CLR 10
SUB CNT 1F
VSM PH 05
VSM GA 00
OS ACL 01
RGB ACL 00
▲ , ▼
CH U/D
TA1298
CLR G 00
CLT 00
YOUT G 00
Y G PNT 00
S TRK 00
RGB G 00
DC PNT 00
DC RAT 00
DC LMT 00
▲ , ▼
CH U/D
TA1298
BSP 03
APL/BS 00
B COR 01
B GA 00
B DET 00
DABL PN 00
DABL GA 07
ABL PN 07
ABL GA 05
MENU
CH U/D
V CHIP RATING
POLLING 0F
TIMEOUT 05
STATUS 02
AFC/CLOCK TEST ☐
MENU
A
BACK TO ADJUSTMENTS

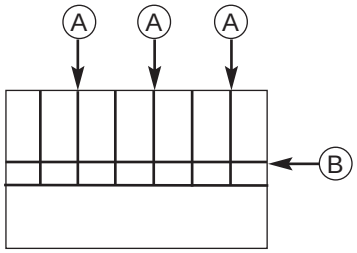
1.2 Comb filter operation check

Adjustment preparation

(1) Receive the color bar signal at the regular tuning point.
(2) Set the CONTRAST control to MAX and the other controls to center.
(3) Set the AI to OFF.

Adjustment procedure

(1) Check that between the color bars there are not line dots every second color bar as shown in the drawing.



Check Ⓐ and Ⓑ line dots.

	53/61SWX01W
Ⓐ	No Dots
Ⓑ	No Dots

1.3 AUDIO OPERATION CHECK

1.3.1 GRAPHIC EQUALIZER OPERATION CHECK

Preparation for adjustment

(1) Input audio signal of 60Hz, 250Hz, 1KHz, 3KHz, and 10KHz in order with level of 150mVrms to the L/mono audio input.
(2) Set the Volume to around the center.
(3) Set INPUT SOURCE mode to ANALOG.
(4) Set SURROUND to OFF.
(5) Set SPEAKER SET UP mode to INTERNAL.
(6) Set LOUDNESS to OFF.
(7) Set DYNAMIC BASS to OFF.
(8) Select the GRAPHIC EQUALIZER mode.

Adjustment procedure

(1) Set SURROUND mode to OFF and check that the audio output level of the speakers change by +8dB or -8dB at each frequency when each frequency moves to max. or min. at the GEQ adjustment mode.
(2) Set SURROUND mode to PRO LOGIC and check that the audio output level of the Center Speaker changes in the same way of item (1).

1.3.2 PERFECT VOL. OPERATION CHECK

Preparation for adjustment

(1) Set PERFECT VOLUME to ON.
(2) Set the Volume to around the center.
(3) Set INPUT SOURCE mode to ANALOG.
(4) Set to SURROUND OFF.
(5) Set SPEAKER SET UP mode to INTERNAL.

Adjustment procedure

(1) Input 100mVrms, 200mVrms, 300mVrms and 400mVrms of 1 KHz audio signal to L/MONO terminal.
(2) Check that same level sound is output from SPEAKER when 200mVrms, 300mVrms and 400mVrms of 1KHz sound singal is input.

1.3.3 DYNAMIC BASS OPERATION CHECK

Preparation for adjustment

(1) Input an audio signal of 60Hz with level of 150mVrms to the L/MONO audio input.
(2) Set the Volume to around the center.
(3) Set INPUT SOURCE mode to ANALOG.
(4) Set SURROUND to OFF.
(5) Set SPEAKER SET UP mode to INTERNAL.

Adjustment procedure

(1) Switch the DYNAMIC BASS from OFF to ON and check that the output level of the MAIN speakers change by +6dB at 60Hz.

The audio signals used at the operation check 1.3.4 ~ 1.3.6 and there after are as follows.

Case 1: Use the DIGITAL AUDIO TEST SIGNAL GENERATOR KENWOOD DG-2530 (This SG has 44.1/32/48kHz PCM, AC-3 bitstream and DTS bit stream DIGITAL AUDIO FORMAT output) or corresponding SIGNAL GENERATOR.

① Analog audio signal
L-CH 1kHz -20dB (200mVrms) / R-CH 1kHz -20dB (200mVrms).
② 44.1kHz PCM
L-CH 1kHz -20dB / R-CH 1kHz -20dB. (Test data No.33 with KENWOOD DG-2530).
③ AC-3 bitstream
L-CH 2kHz -20dB / R-CH 2kHz -20dB / C-CH 2kHz -20dB / SL-CH 2kHz -20dB / SR-CH 2kHz - 20dB. (Pattern data No. 15 with KENWOOD DG-2530)
④ AC-3 bitstream
L-CH 50Hz -20dB / R-CH 50 Hz -20dB / C-CH 50 Hz -20dB / SL-CH 50Hz -20dB / SR-CH 50Hz -20dB / SW-CH 50Hz -20dB. (Pattern test data No. 9 with KENWOOD DG-2530)

Case 2: Use the DOLBY DVD DEMO AND TEST DISC (Ver. 1.0). Select the “5.1 CHANNEL TEST SIGNAL” menu.

① Analog audio signal
L-CH 1kHz 020dB (200mVrms) / R-CH 1kHz -20dB (200mVrms).
② AC-3 bitstream
FL-CH 997Hz -20dB FS / R-CH 997Hz -20dB FS (Track 8 “2 CHANNEL TEST SIGNAL” - “SYSTEM GAIN” - “997kHz -20dB FS”)
③ AC-3 bitstream
L-CH 2kHz -20dB / R-CH 2kHz -20dB / C-CH 2kHz -20dB / SL-CH 2kHz -20dB / SR-CH 2 kHz -20dB (Track 31 “5.1 CHANNEL TEST SIGNAL”-”SYSTEM GAIN”-”2kHz -20dB FS”).

BACK TO ADJUSTMENTS

④ AC-3 bitstream
L-CH 30Hz 0dB / R-CH 30Hz 0dB / C-CH 30Hz 0dB / SL-CH 30Hz 0dB / SR-CH 30Hz 0dB / SW-CH 30Hz 0dB.
(Track 72 “5.1 CHANNEL TEST SIGNAL” - “DISTORTION” - “6X30Hz FS”)

⑤ AC-3 bitstream
SW-CH 30Hz 0dB (Track 70 “DISTORTION”-”LFE FS”).

1.3.4 INPUT SOURCE OPERATION CHECK

Preparation for adjustment

(1) Set LOUDNESS to OFF.
(2) Set DYNAMIC BASS to OFF.
(3) Input the audio signal ① to the L/mono audio input 1.
(4) Input the audio signal ② to the COAXIAL input.
(5) Input the audio signal ② to the OPTICAL input.
(6) Select Video 1 mode or Video 2 mode.
(7) Set the Volume to around the center.
(8) Set SURROUND to OFF.
(9) Set SPEAKER SET UP mode to INTERNAL.

Adjustment Procedure

(1) Select to ANALOG mode and check that the audio signal ① output from the speakers.
(2) Select to COAXIAL mode and check that the audio signal ② output from the speakers.
(3) Select to OPTICAL mode and check that the audio signal ② output from the speakers.

1.3.5 SURROUND MODE OPERATION CHECK

(a-1) SURROUND OFF MODE OPERATION CHECK.

Preparation for adjustment

(1) Set LOUDNESS to OFF.
(2) Set DYNAMIC BASS to OFF.
(3) Set the MASTER VOLUME to the center (-27dB)
(4) Set SURROUND to OFF.
(5) Set the BALANCE to the center and SUB WOOFER level to around the center.
(6) Set SPEAKER SET UP mode to INTERNAL.

Adjustment Procedure

(1) Input the audio signal ② to the OPTICAL input.
(2) Check the wavefrom of audio signal ② at the FRONT L / R speakers.
(3) Check the waveform of audio signal ② at the SUB WOOFER lineout.
(4) Check no waveform of audio signal at the CENTER speakers and at SURROUND L / R speaker terminal.

Channel	Output	Output Waveform (reference level)	
		Case 1	Case 2
Front L	Speaker out	1kHz (225± 10mVrms)	997Hz (225± 10mVrms)
	HiFi out	1kHz (9± 1mVrms)	997Hz (9± 1mVrms)
Front R	Speaker out	1kHz (225± 10mVrms)	997Hz (225± 10mVrms)
	HiFi out	1kHz (9± 1mVrms)	997Hz (9± 1mVrms)
Center	Speaker out	No signal	No signal
Surround L	Speaker terminal out	No signal	No signal
Surround R	Speaker terminal out	No signal	No signal
Sub Woofer	SW line out	Almost zero level	Almost zero level

BACK TO ADJUSTMENTS

(5) Check no waveform of audio signal at the CENTER speakers and at SURROUND L / R speaker terminal out.
(6) Input the audio signal ④ to the OPTICAL input.
(7) Check the waveform of audio signal ④ at the FRONT L / R speakers
(8) Check the waveform of audio signal ④ at the SUB WOOFER lineout.

Channel	Output	Output Waveform (reference level)	
		Case 1	Case 2
Front L	Speaker out	50Hz (370± 10mVrms)	30Hz (0.70± 0.05mVrms)
	HiFi out	50kHz (20± 1mVrms)	30Hz (45± 5mVrms)
Front R	Speaker out	50kHz (370± 10mVrms)	30Hz (0.70± 0.05mVrms)
	HiFi out	50kHz (20± 1mVrms)	30Hz (45± 5mVrms)
Center	Speaker out	No signal	No signal
Surround L	Speaker terminal out	No signal	No signal
Surround R	Speaker terminal out	No signal	No signal
Sub Woofer	SW line out	50Hz (40± 5mVrms)	30Hz (150± 10mVrms)

(a-2) DOLBY DIGITAL MODE OPERATION CHECK

Preparation for adjustment
(1) Set LOUDNESS to OFF.
(2) Set DYNAMIC BASS to OFF.
(3) Set the Master Volume and Trim Level to the center. (-27dB)
(4) Set to DOLBY DIGITAL mode.
(5) Set SPEAKER SET UP mode to INTERNAL.

Adjustment Procedure
(1) Input the audio signal ③ to the OPTICAL input.
(2) Check the waveform of audio signal ③ at the FRONT L / R speakers.
(3) Check the waveform of audio signal ③ at the CENTER speakers.
(4) Check the waveform of audio signal ③ at the SURROUND L / R speaker terminal.
(5) Check the waveform of audio signal ③ at the SUB WOOFER lineoout.

Channel	Output	Output Waveform (reference level)	
		Case 1	Case 2
Front L	Speaker out	2kHz (225± 10mVrms)	2kHz (225± 10mVrms)
	HiFi out	2kHz (9± 1mVrms)	2Hz (9± 1mVrms)
Front R	Speaker out	2kHz (225± 10mVrms)	2kHz (225± 10mVrms)
	HiFi out	2kHz (9± 1mVrms)	2kHz (9± 1mVrms)
Center	Speaker out	2kHz (160± 10mVrms)	2kHz (160± 10mVrms)
Surround L	Speaker terminal out	2kHz (225± 10mVrms)	2kHz (225± 10mVrms)
Surround R	Speaker terminal out	2kHz (225± 10mVrms)	2kHz (225± 10mVrms)
Sub Woofer	SW line out	Almost zero level	Almost zero level

BACK TO ADJUSTMENTS

(6) Input the audio signal ④ to the OPTICAL input.
(7) Check the waveform of audio signal ④ at the FRONT L / R speakers.
(8) Check the waveform of audio signal ④ at the CENTER speakers.
(9) Check the waveform of audio signal ④ at the SURROUND L / R speaker terminal.
(10) Check the waveform of audio signal ④ at the SUB WOOFER lineout.

Channel	Output	Output Waveform (reference level)	
		Case 1	Case 2
Front L	Speaker out	50Hz (150± 10mVrms)	30Hz (0.55± 0.05mVrms)
	HiFi out	50kHz (7.5± 1mVrms)	30Hz (35± 5mVrms)
Front R	Speaker out	50kHz (150± 10mVrms)	30Hz (0.55± 0.05mVrms)
	HiFi out	50kHz (7.5± 1mVrms)	30Hz (35± 5mVrms)
Center	Speaker out	50Hz (20± 5mVrms)	30Hz (25± 5mVrms)
Surround L	Speaker terminal out	50Hz (40± 5mVrms)	30Hz (60± 5mVrms)
Surround R	Speaker terminal out	50Hz (40± 5mVrms)	30Hz (60± 5mVrms)
Sub Woofer	SW line out	50Hz (10± 1mVrms)	30Hz (120± 10mVrms)

1.3.6 SPEAKER SET UP OPERATION CHECK

Preparation for adjustment
(1) Set LOUDNESS to OFF.
(2) Set DYNAMIC BASS to OFF.
(3) Set the Master Volume and Trim Level to the center (-27dB)
(4) Set to DOBLY DIGITAL mode.

Adjustment Procedure
(1) Input the audio signal ③ to the OPTICAL input.
(2) SET FRONT L / R to EXTERNAL.
(3) Check the waveform of audio signal ③ at the FRONT L / R speakers.
(4) Check the waveform of audio signal ③ at the FRONT L / R HiFi out.

Channel	Output	Output Waveform (reference level)	
		Case 1	Case 2
Front L	Speaker out	No signal	No signal
	HiFi out	(9± 1mVrms)	(9± 1mVrms)
Front R	Speaker out	No signal	No signal
	HiFi out	2(9± 1mVrms)	(9± 1mVrms)

BACK TO ADJUSTMENTS

(5) Input the audio signal 3 to the OPTICAL input.
(6) Set SURROUND to OFF.
(7) Check no waveform of audio signal at the SURROUND L / R speakers.

Channel	Output	Output Waveform (reference level)	
		Case 1	Case 2
Surround L	Speaker terminal out	No signal	No signal
Surround R	Speaker terminal out	No signal	No signal

(8) Input the audio signal ④ (case 1) or ⑤ (case 2) to the OPTICAL input.
(9) Set SUB WOOFER to NO.
(10) Check no waveform of audio signal at the SW line out.

Channel	Output	Output Waveform (reference level)	
		Case 1	Case 2
Front L	Speaker out	--	(0.85± 0.05mVrms)
	HiFi out	--	(50± 5mVrms)
Front R	Speaker out	--	(0.85± 0.05mVrms)
	HiFi out	--	(50± 5mVrms)
Sub Woofer	SW line out	No signal	No signal

BACK TO ADJUSTMENTS

Important: High Voltage adjustment should NOT be adjusted in field. This is adjusted at factory using precise loads and should NOT be readjusted.

1.4 High Voltage Adjustment (should NOT be readjusted in field).

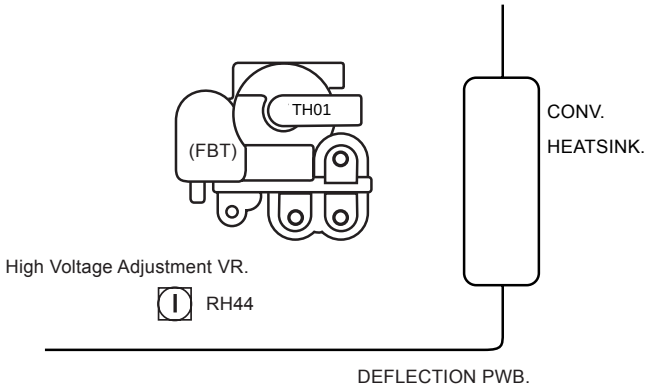
Adjustment preparation

(1) Connect High Voltage meter to FBT High Voltage output. Connect GND of High Voltage meter to CPT GND or FBT GND.
(2) Check that High Voltage adjustment VR (RH44) is set to mechanical center. (located behind FBT on DEFLECTION PWB).
(3) Receive circle pattern signal.
(4) VIDEO control should be reset.

Adjustment procedure

(1) Adjust High Voltage to following spec. by turning VR RH44 slowly. ADJ. SPEC = 31.5kV +/- 0. 5kV
(2) After adjustment, fix VR RH44 with Silicone glue (KE40RTV).

2. FINAL ASSEMBLY ADJUSTMENT



2.1 Cut Off Adjustment

Adjustment preparation

(1) Set R and G drive VR's on CPT P.W.B. to center.
(2) Adjust screen VR's on Focus Pack fully counterclockwise.
(3) Adjust Focus VR's on Focus Pack fully clockwise.
(4) Set video conditions to factory preset.
(5) The vertical incident illumination on the screen should be 20 lux or less (room should be dark).

Adjustment procedure

(1) Press and hold INPUT key on control panel and then POWER ON to access I²C adjustment mode.
(2) Choose "SERVICE" item from I²C adjustment menu by pressing THUMB STICK ▶.
(3) Screen VR should be turned clockwise gradually and set so that retrace line begins to appear.
(4) Return to "NORMAL" mode by THUMB STICK ◀ again.
(5) Adjust Focus VR's so that focus is even all around screen.

2.2 DCU Phase Data Setting

Adjustment preparation

(1) Cut off adjustment should be finished.
(2) Set video conditions to factory preset.

Adjustment procedure

PROGRESSIVE MODE

(1) Receive any NTSC signal.
(2) Push "SERVICE ONLY" SW on DEFLECTION PWB. (Going to DCU ADJ. mode).
(3) Push HELP key on R/C. (Green cross hatch is displayed).
Then push EXIT key on R/C. (Character pattern is displayed. This is the PHASE setting mode).
(4) Set PH-H phase data as shown below by using 4 and 6 key on R/C.
(5) Set PH-V phase data as shown below by using 2 and 5 key on R/C.
(6) Set CR-H phase data as shown below by using THUMB STICK ◀ and ▶ key on R/C.
(7) Set CR-V phase data as shown below by using THUMB STICK▲ and ▼ key on R/C.
(8) Push HELP key on R/C to exit from the PHASE mode.
(9) Push PIP MODE key 2 times on R/C to write the phase data to memory.
(10) When Green dots are displayed, push MUTE key to return to DCU ADJ. mode.
(11) Push "SERVICE ONLY" SW to return to RF or VIDEO mode.

HD MODE

(12) Receive any HD signal (Set to video: 1 or 2 mode with HD input to component jacks).
(13) Repeat steps (2) ˜(11) above.

PROGRESSIVE MODE

PHASE MODE

PH-H: BB
PH-V: 0A
CR-H: 4C
CR-V: 00

HD MODE

PHASE MODE

PH-H: BB
PH-V: 07
CR-H: 4C
CR-V: 0C

BACK TO ADJUSTMENTS

2.3 HOR. POSITION ADJUSTMENT (Coarse)

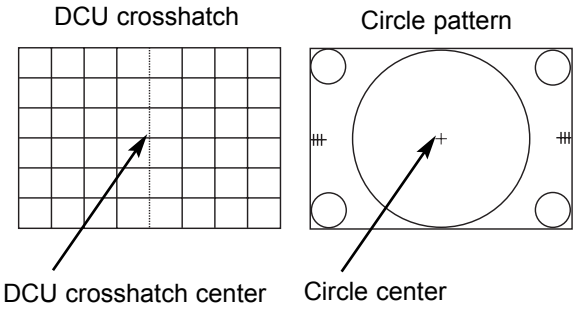
Adjustment preparation

(1) DCU PHASE DATA SETTING should be finished.

Adjustment procedure

PROGRESSIVE MODE

(1) Receive circle pattern (CH 3)
(2) Push SERVICE ONLY switch then DCU crosshatch is displayed. Mark the DCU crosshatch center position using your finger tip.
(3) Push SERVICE ONLY switch again to exit from the DCU crosshatch.
(4) Go to I²C ADJ. mode.
(5) Choose H. POSI item by using R/C MENU (or up/down cursor) key. Adjust horizontal position to match the circle center to DCU crosshatch center (marked by your finger tip).
(6) Exit from I²C menu.



HD MODE

(1) Receive 1080I (fH=33.75KHz) circle pattern signal. (Input to component video terminal.)
(2) Repeat steps (2)~(6) above.

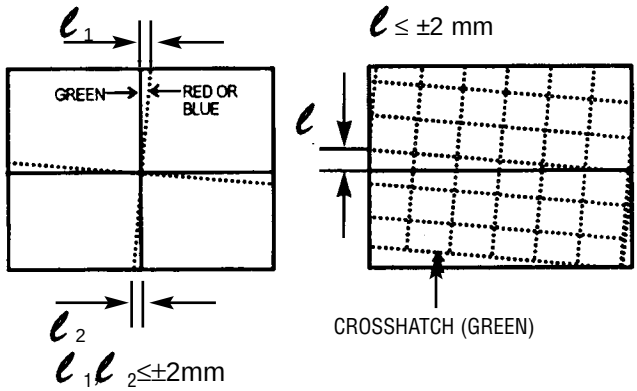
2.4 Raster Tilt adjustment (Deflection yoke)

Adjustment preparation

(1) The set can face east or west.
(2) Input the single cross test signal.
(3) Set video conditions to factory preset.
(4) The lens focus and horzontal position adjustment should have been coarse adjusted.
(5) The electric focus should have been coarse adjusted.
(6) The digital convergence RAM should be cleared (uncorrected state). With the TV set off, press and hold the service switch located on the Power/Deflection PWB and then press the power button.
(7) Start adjustment after TV is turned on for 20 minutes or more.

Adjustment procedure

(1) Apply covers to the R and B lenses and project only green light.
(2) Turn the G deflection yoke and adjust the vertical raster inclination.
(3) Then, remove the cover of R or B lens and project red or blue light and green light together on screen.
(4) Turn the deflection yoke of R or B and set so that the inclination of R or B light with respect to the green light is as shown below on the top and bottom sides.
(5) After raster inclination adjustment, fixing screw of DY should be screwed with 12±2kg-cm torque.



Notes: (1) If internal cross-hatch does not appear after clearing RAM data, press service switch again, on POWER/DEFLECTION PWB.
(2) To restore old RAM data, turn TV off and on.

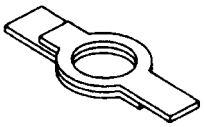
2.5 Beam alignment

Adjustment preparation

(1) Adjust after turning on power switch for at least 30 minutes.
(2) Raster tilt should be completed. Raster position, horizontal and vertical size, and optical focus adjustment should be coarse adjusted.
(3) Set video conditions to factory preset.
(4) Receive cross-hatch signal. (Use of internal cross-hatch signals allowed.)

Adjustment procedure

(1) Green (G) tube beam alignment adjustment. Short-circuit 2P subminiature connector plug pins of Red (R) and Blue (B) on the CPT boards and project only Green (G) light or you may cover the R and B lens.
(2) Put Green (G) tube beam alignment magnet to the cancel state as shown below.



(3) Turn the Green (G) static focus (Focus Pack) counterclockwise all the way and make sure of position of cross-hatch center on screen. (Halo state.)
(4) Turn the Green (G) static focus (Focus Pack) clockwise all the way. (Blooming state.)
(5) Turn two magnets forming alignment magnet in any desired direction and move cross-hatch center to position found in (3).
(6) If image position does not shift when Green (G) static focus (Focus Pack) is turned. Green (G) beam alignment has been completed.
(7) If image position shifts when Green (G) static focus (Focus Pack) is turned, repeat (2)-(6).
(8) Conduct beam alignment for red (R) and Blue (B) focus: Focus Pack UFPK.
(9) Upon completion of adjustment, fix beam alignment magnets with white paint.

BACK TO ADJUSTMENTS

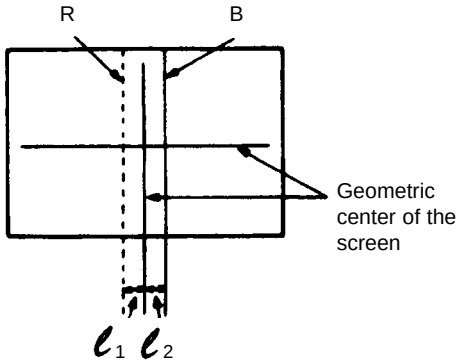
2.6 Raster position adjustment

Adjustment preparation
(1) The set can face east or west.
(2) Input the single cross test signal.
(3) Set video conditions to factory preset.
(4) The electric focus should have been coarse adjusted.
(5) The digital convergence RAM should be cleared (uncorrected state). With the TV set off, press and hold the service switch located on the Power/Deflection PWB and then press the power button.
(6) Start adjustment after TV is turned on for 20 minutes or more.

Adjustment procedure
(1) Turn the centering magnets for red, green, and blue to satisfy the condition below. The red and blue horizontal lines should match with green.

	ℓ_1 (RED)	ℓ_2 (BLUE)
53SWX01W	20	30
61SWX01W	20	30

Tolerance: ± 2mm



(2) Upon completion of adjustment, fix centering magnets with white paint.

NOTES: (1) If internal cross-hatch does not appear after clearing RAM data, press service switch again.
(2) To restore old RAM data, turn TV off and on.

2.7 Vertical size adjustment

Adjustment preparation
(1) The set can face east or west.
(2) Set video conditions to factory preset.
(3) The electric focus should have been coarse adjusted.
(4) Start adjustment after TV is turned on for 20 minutes or more.

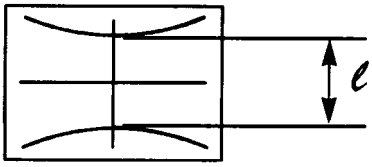
Adjustment procedure

PROGRESSIVE MODE

(1) Receive any NTSC signal.
(2) Press the SERVICE ONLY SW on DEFLECTION PWB.
(3) Locate the vertical size VR (R630) (see page 53). Adjust the vertical size according to the following table.

ℓ =	PROGRESSIVE MODE
53SWX01W	565
61SWX01W	650

Tolerance: ± 5mm



Notes: (1) If internal cross-hatch does not appear after clearing RAM data, press service switch again (on POWER/DEFLECTION PWB).
(2) To restore old RAM data, turn TV off and on.

2.8 Horizontal size adjustment

Adjustment preparation
(1) The set can face east or west.
(2) Set video conditions to factory preset.
(3) The electric focus should have been coarse adjusted.
(4) Start adjustment after TV is turned on for 20 minutes or more.

Adjustment procedure

PROGRESSIVE MODE

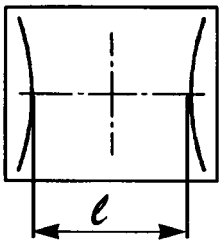
(1) Receive any NTSC signal.
(2) Press the SERVICE ONLY SW on DEFLECTION PWB.
(3) Locate the horizontal size VR (R683) (see page 53). Adjust horizontal size to the table below.

HD MODE

(1) Input 1080i (fH=33.75kHz) component signal to VIDEO 1 or 2.
(2) Press the SERVICE ONLY SW on DEFLECTION PWB.
(3) Locate the horizontal size VR (R686) (see page 53). Adjust the horizontal size to the following table.

ℓ =	PROGRESSIVE MODE	HD MODE
53SWX01W	1150	1150
61SWX01W	1320	1320

Tolerance: ± 5mm



Notes: (1) Once Prog. mode Horizontal size adj. is done, do not touch the VR (R683) again. Move to HD Horizontal Size Adjustment.
(2) To restore old RAM data, turn TV off and on.

BACK TO ADJUSTMENTS

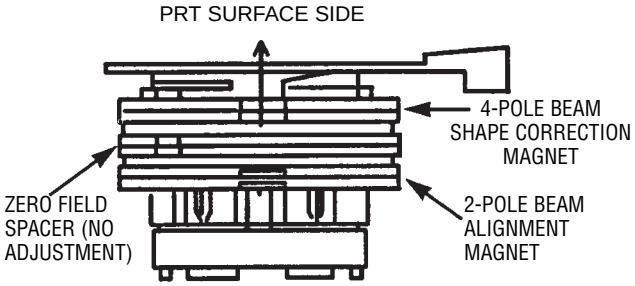
2.9 Beam form adjustment

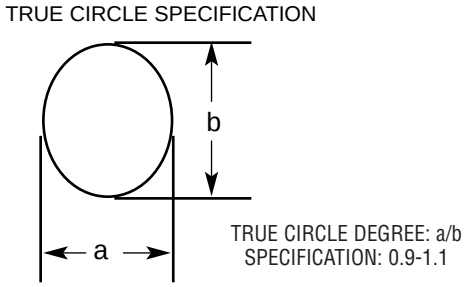
Adjustment preparation

(1) The beam alignment should have been completed.
(2) The raster tilt, centering, horizontal/vertical size should have been completed.
(3) Set video conditions to factory preset.
(4) Input the dot signal.

Adjustment procedure

(1) Green PRT beam shape adjustment. Short-circuit 2P sub-mini connectors on Red and Blue CPT P.W.B.s to project only the Green beam.
(2) Turn the green static focus VR, on the Focus Pack, fully clockwise. (Blooming)
(3) Make the dot at the screen center a true circle using the 4-pole magnet as shown below.
(4) Also adjust the Red and Blue PRT beam shapes according to the steps (1) to (3).
(5) After the adjustment has been completed, return R, G and B static VRs to the just focus point.
(6) After the beam form is completed, fix the beam form magnet with white paint.





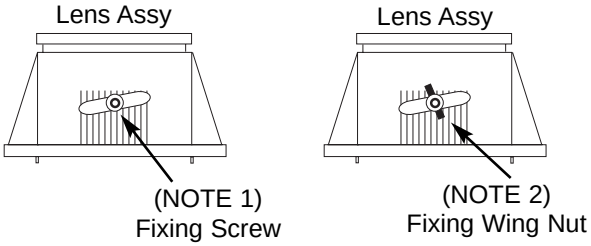
2.10 LENS FOCUS ADJUSTMENT

Adjustment preparation

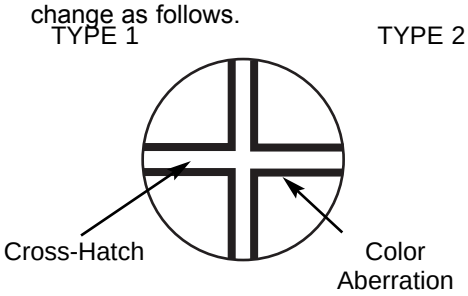
(1) The orientation of PTV set is arbitrary, west, east, north and south.
(2) Centering DY inclination should have been adjusted.
(3) Electrical focus adjustment should have been completed.
(4) Drive VR location adjustment should have been completed. (Red : 12 O'clock, Green : 1~2 O'clock).
(5) Receive the cross-hatch pattern signal.
(6) Refer to setup below.
CONTRAST : HALF of full scale.
BRIGHTNESS : minimum

Adjustment procedure

(1) Loosen the fixing screw or wing nut on the lens cylinder so that the lens cylinder can be turned. (Be careful not to loosen too much). After completing steps (4), (5), (6) below, tighten the fixing screws or wing nuts for each lens with a torque of 1.18N.m (12Kgf cm) ~ 1.67N.m (17Kgf cm).
(Be careful the lens cylinder does not turn after having tightened the screw or wing nuts. If it is tightened too much, lens may tilt or screw may break.)

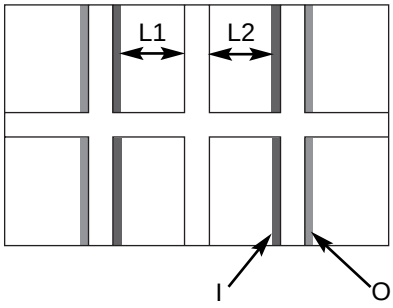


(2) Apply covers to each color of R, G and B lenses. And project a single color on the screen and adjust in sequence. (The adjustment order of R, G and B is only an example.)
(3) If the lens adjustment knob is turned clockwise viewed from the front, the color Aberration change as follows.



	Change of Color Aberration	
	Short focus	Long focus
RED LENS	Orange	Scarlet
GREEN LENS	Blue	Red
BLUE LENS	Purple	Green

(4) In case of G lens. Set to the point where the chromatic aberration switches from blue to red. If the chromatic aberration appearing all over the screen is not the same, observe the vertical bright line and adjust lens focus as specified in table below. When the red chromatic aberration appearing at both sides of the bright line is not equal, observe the side with larger chromatic aberration when adjusting.



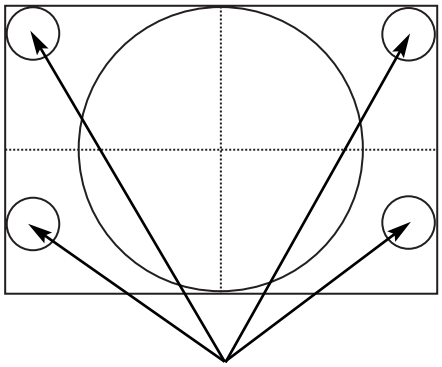
BACK TO ADJUSTMENTS

OPTICAL FOCUSING ADJUSTMENT GREEN

CHASSIS		DP07 (SB)	
SCREEN SIZE		61”	53”
L1 and L2 (PITCHES from CENTER)		3.0	4.0
COLOR ABERRATION	BETWEEN L1&L2	**	*
	I	** 2mm MAX	* 2.5mm MAX
	O	** 2mm MAX	* 2.5mm MAX

(NOTE) * Slightly reddish or no color
** Slightly reddish or no color

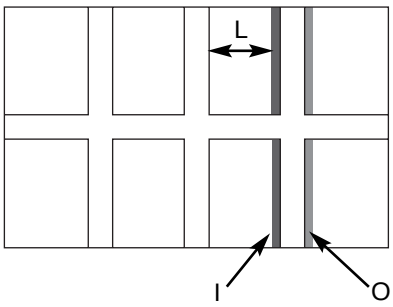
Change the signal to the circle pattern and fine adjust. Observe the corner part of the screen, especially observe number in the small circle when adjusting. If the focus performance at the screen center exceeds the lower limit, it is acceptable.



Small circle of circle pattern

NOTES: 1. Since the G light is very important for picture quality and performance, pay special attention in its adjustment.
2. Be careful not to touch the lens with your fingers when adjusting.

(5) In case of R lens. Set the position where the chromatic aberration changes from red to crimson. As shown below, observe the vertical bright line and adjust lens focus where the crimson or red chromatic aberration slightly appears inside and crimson or red outside (reference value : 1~3mm) at the point specified in table below. Change the signal and fine-adjust in the same way as the G lens.



NOTE: Setting the center between Red and crimson is optimum.

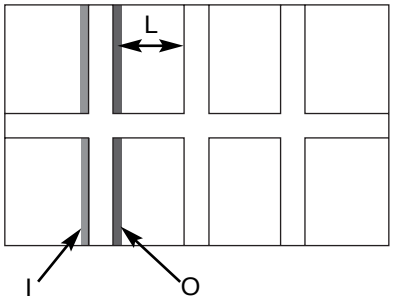
OPTICAL FOCUSING ADJUSTMENT RED

CHASSIS		DP07 (SB)	
SCREEN SIZE		61”	53”
L1 and L2 (PITCHES from CENTER)		3.0	0.0 CENTER
COLOR ABERRATION	BETWEEN L1&L2	*	--
	I	* 2mm MAX	* 2.5mm MAX
	O	** 2mm MAX	* 2.5mm MAX

(NOTE) * Slightly reddish or no color
** Slightly reddish or no color

(NOTE) Setting to center between red and crimson is optimal.

(6) In case of B lens. Set the position where the chromatic aberration changes from purple to green. As shown below, observe the vertical bright line and adjust lens focus where the purple or green chromatic aberration slightly appears inside and purple or green outside (reference value : 1~3mm) at the point specified in table below. Change the signal and fine-adjust in the same way as the G lens.



NOTE: Setting to the center between purple and crimson is optimum.

Adjustment Procedure

(7) After all colors have been adjusted, display all colors with the cross-hatch pattern signal and compare the focus (optical focus) performance with the limit sample set.
(8) Then, select the circle pattern signal and compare the focus (optical focus) performance of each color and all colors together with the limit sample set.
(9) If the focus performance is worse than the limit sample set, re-adjust step (1) to (6).

2.11 STATIC FOCUS ADJUSTMENT

Adjustment preparation

(1) LENS FOCUS adjustment should be finished.
(2) Contrast : MAX
Brightness : Center.
(3) Receive the circle pattern signal.
(4) Apply covers to the lens of the colors you are not adjusting and project only one color on the screen.

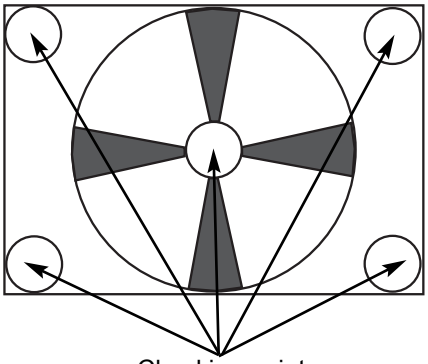
BACK TO ADJUSTMENTS

Adjustment procedure

(1) Red and blue static focus adjustment. Adjust the static focus VR on Focus pack (UFPK) so that the center of circle pattern is the most clear. Check that the focus does not get conspicuously worse at the edges of the circle pattern signal or cross-hatch signal.

(2) Green static focus adjustment. Adjust the static focus VR on Focus pack (UFPK) (for green) so that the center of circle pattern is the most clear. Check that the focus does not get conspicuously worse at the checking point, the periphery of circle pattern cross-hatch signal.

NOTE: Checking point for the periphery of picture.



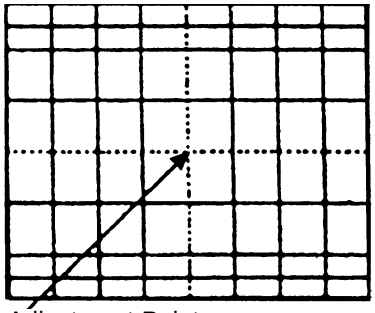
Checking point

2.12 Digital convergence adjustment

Note: If replacing a PRT, DY, etc. perform auto-digital convergence first. (Press front panel MAGIC FOCUS switch when in normal customer mode). This can eliminate the need for a complete digital convergence alignment.

Adjustment preparation

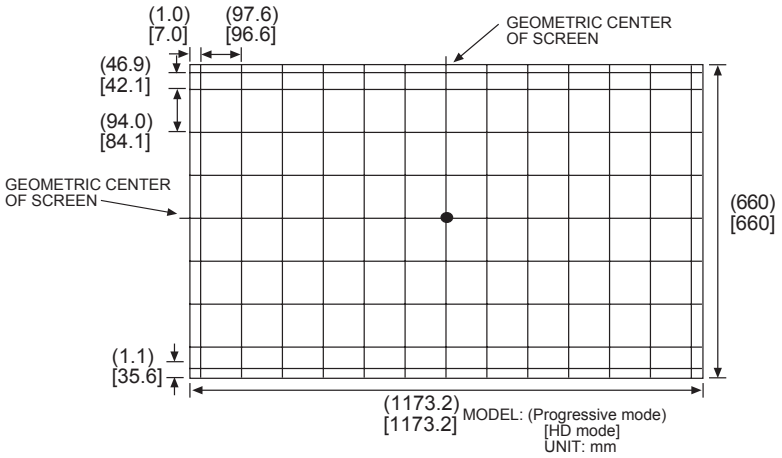
(1) Receive an RF or video signal.
(2) Set controls to factory preset.
(3) Install jig screen on the set.
(4) Note the center of the video pattern displayed. This is necessary to match dotted lines (adjustment point viewed) and actual point that is adjusted and displayed by the video signal.
(5) Press the service only switch (on POWER/DEFLECTION PWB). The pattern displayed is now the digital convergence mode.
(6) When performing a complete digital convergence adjustment CLEAR DATA in RAM. (With the TV set off, press and hold the service switch located on the Power/Deflection P.W.B. and then press the POWER button).



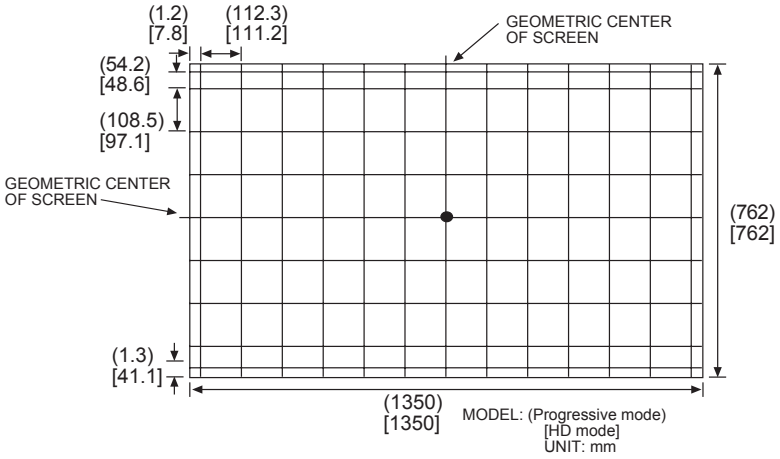
Adjustment Point

BACK TO ADJUSTMENTS

53” JIG SCREEN SPECIFICATION 16:9



61” JIG SCREEN SPECIFICATION 16:9



BACK TO ADJUSTMENTS

Note: If only minor adjustments to convergence are needed, the jig screen is not necessary. Use digital data stored in memory and one color as a reference (red, green, or blue). DO NOT CLEAR DATA and WRITE to ROM memory.

2.12.1 Raster position adjustment

Adjustment preparation

(1) Position adjustment - This will move an entire color. Use this adjustment to match colors at the center of the screen. (Active video center from external signal and physical screen center should now match from phase adj. 2.2.).
(2) Use the buttons below to switch color to adjust.
"RECALL" - Green
"0" - Red
"INPUT" - Blue

Adjustment procedure

(1) Press the FREEZE button. Extra horizontal lines appear to confirm raster position mode.
(2) Use the thumb stick to adjust position.
(3) Press FREEZE again to exit raster position mode.

Notes: (1) Other functions cannot be accessed when in raster position adjustment mode. Press FREEZE and confirm extra horizontal lines disappear to exit raster position mode.
(2) Press MENU to switch between all colors displayed or adjustment color and Green only.

2.12.2 Convergence point adjustment

Adjustment preparation

(1) Select color to adjust.
"RECALL" - Green
"0" - Red
"INPUT" - Blue
(2) Use 4, 6, 2, and 5 to move the cursor position (dotted lines).
(3) Use thumb stick to move the convergence point.
(4) Three adjustment modes are available:
1. (3x3) Press "RECALL" 5 times (only works when DCU is in uncorrected state)
2. (7x5) Press "0" 5 times
3. (13x9) Press "INPUT" 5 times

For touch-up, only the (13x9) mode is necessary. This will adjust every cross-hatch intersection point on the screen.

For complete adjustment, start with (3x3) mode. This will adjust center point and eight edge points only, but will greatly reduce adjustment time. Then use (7x5) mode, and finally (13x9) mode to finish convergence.

If "S" distortion appears between cross-hatch lines repeat (7x5) mode to change calculation process while adjusting to remove distortion, then return to (13x9) mode to finish touch-up convergence.

Adjustment procedure

PROGRESSIVE MODE

(1) Receive any NTSC signal.
(2) Start adjustment at the center of the screen.
(3) Continue adjustment at next closest position.
(4) Adjust center area first, ending with edge sections.
(5) Press INFO button to perform calculation operation. This process will take about 2 seconds and no picture will be seen at this time.
(6) After interpolation, check convergence again and repeat (1)-(5) if necessary.
(7) When convergence is acceptable, press PIP MODE to write data to ROM memory. ROM WRITE? is displayed to alarm system that ROM will be overwritten with new data. Press the PIP MODE button again to write displayed data to ROM.
(8) DATA WRITE TO ROM will take approximately 4 seconds and no picture will be displayed.
(9) Green dots will be displayed when operation is completed.
(10) Press MUTE to return to convergence pattern, then confirm again convergence is acceptable.
(11) Press PIP MODE (ROM WRITE) mode, then press PIP CH to initialize sensor data positions.

Adjustment procedure

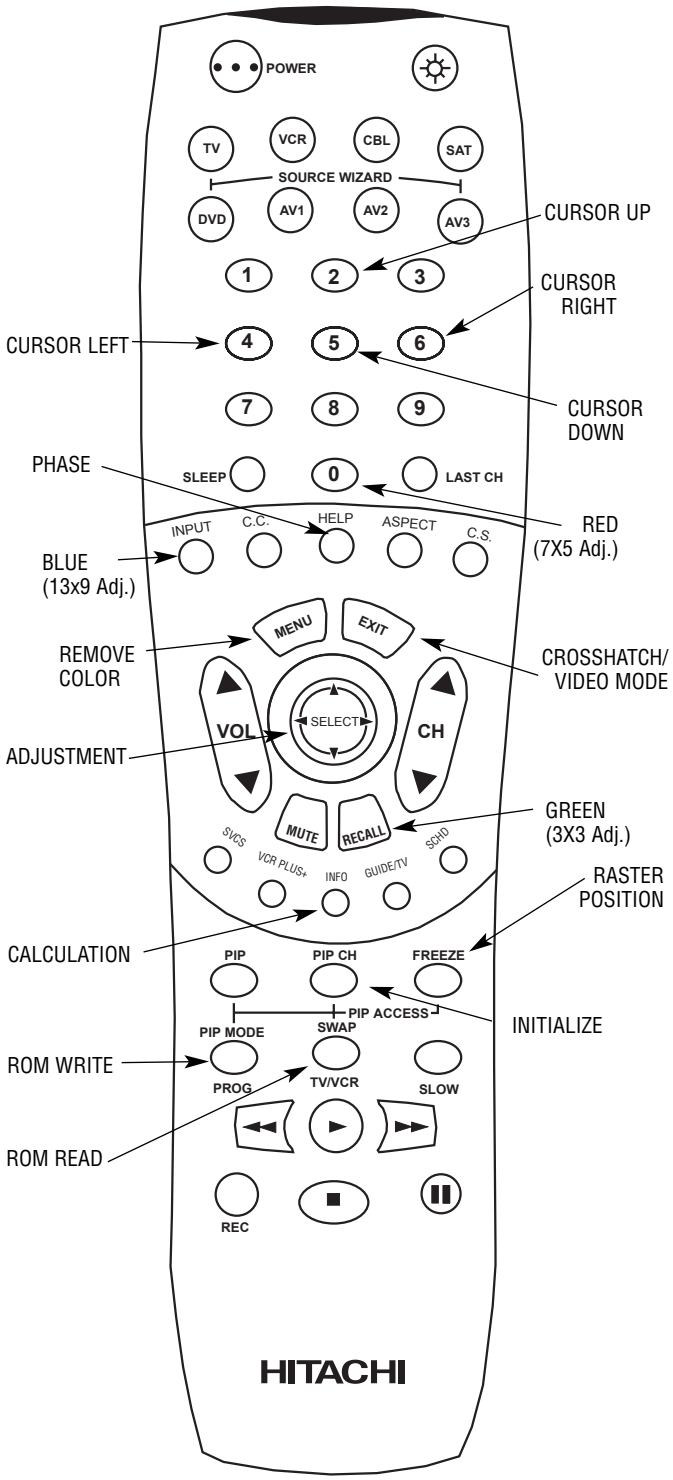
HD MODE

(1) Receive any HD signal.
(2) Repeat steps 2~11 above.

Notes: (1) Display only green for easier adjustment and match to jig screen. Press "MENU", THEN PRESS "RECALL".
(2) Perform interpolation and data write to ROM after green adjustment. Once green has been confirmed to match jig screen, the jig screen can be removed. Do not readjust the green color after jig screen has been removed. This is now your reference color.
(3) Display green and red only and match red to green.
(4) Display all colors and match blue to green and red. Touch-up red color if necessary.
(5) Existing DATA in ROM can be read by pressing the SWAP button 2 times. This data can be used after replacing a component (CRT, DY, etc.) Where complete convergence adjustment is not necessary be careful not to overwrite this data.
DO NOT write cleared RAM data into ROM or a complete convergence adjustment will be necessary. Remember to try MAGIC FOCUS before starting convergence adjustment to minimize adjustment time.

BACK TO ADJUSTMENTS

2.12.3 Digital Convergence Remote Control



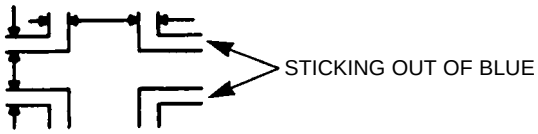
2.13 Blue defocus adjustment

Adjustment Preparation

(1) Optical and electrical focus adjustment should have been completed.
(2) The convergence adjustment should have been completed.
(3) Set Video conditions to factory preset.
(4) Input the cross-hatch signal.

Adjustment procedure

(1) Turn the B Focus VR (Focus Pack) fully clockwise.
(2) Adjust sticking out level of blue to specification shown in table below, by turning the (B) FOCUS VR counter clockwise.



UNEVENNESS SPECIFICATION: ±1cd/m^2

Defocus sticking out specification

Screen Size	Blue sticking out
53”	1.0mm
61”	1.0mm

Condition: User controls are set to the initial set positions (for shipment)

Measuring point-Screen center.

2.14 White balance adjustment

(1) Screen adjustment
(2) High light white balance.
(3) Low light white balance.

Screen adjustment VRs	Drive adjustment VRs
Red: on FOCUS PACK	Red: R829 on CPT P.W.B.
Green: on FOCUS PACK	Green: R879 on CPT P.W.B.
Blue: on FOCUS PACK	

BACK TO ADJUSTMENTS

Adjustment preparation

(1) Start adjustment after the power is turned on for 20 minutes or more.
(2) The vertical incident illumination on the screen should be 20 lux or less. (Room should be dark).
(3) Set the video settings (CONTRAST: max, others: center) to standard condition.
(4) The blue defocus and cut off adjustments should be completed.
(5) For low light white balance adjustment, input a white raster signal level of 0.286 Vp-p (Video input level).
(6) For high light white balance adjustment, input a white raster signal level of 0.715Vp-p (Video input level).
(7) Set the drive adjustment VRs (red and green) to 12 - 2 o'clock position.
(8) Set Video Advanced Settings-Color Temperature to COOL.

Adjustment procedure

(1) Select the input signal for high brightness (Video level = 0.715Vpp).
(2) Adjust the high brightness white balance using the drive adjustment VRs (red, green).
(3) Select the signal for low brightness (Video level = 0.286Vpp)
(4) Adjust the low brightness white balance using the screen adjustment VRs (red, green, blue). (Visually adjust).
(5) Check that high brightness white balance is still obtained. If it is not, return to step (2).

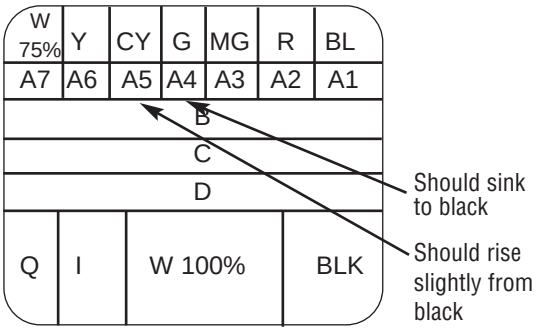
NOTE: When adjusting low level white balance, turn the screen VRs counterclockwise. The cut-off adjustment should already be completed and the screen VR's should not be increased past the level set at cut-off. Since the phosphorescent surface of the CRT is likely to be burned, be careful.

White balance = 10800° K ± 0 MPCD
Color coordinate = x …… 0.278
y …… 0.280

2.15 Sub brightness adjustment

Adjustment preparation

(1) Start adjustment after the power is turned ON for 20 minutes or more.
(2) Receive the color bar signal.
(3) Set video conditions to factory preset.
(4) The vertical incident illumination on the screen should be 20 lux or less. (Room should be dark).



Adjustment procedure

(1) Go to "Sub Brightness" adjustment in I²C ADJUST mode (press Input and Power button on Control panel at same time), using thumb stick ▲, ▼ and then thumb stick ►.
(2) Then adjust "Sub Brightness" using thumb stick ◄, ► to increase or decrease the value, according to figure. (Visually adjust).
(3) After adjustment, press MENU button to exit I²C ADJUST mode. (Data is stored in memory).

Note: When selecting SUB-BRIGHTNESS mode the microcontroller sets the CONTRAST and COLOR to MIN. automatically, but make sure that the other conditions are center.
Directly observe the screen by eye without using a mirror.

2.16 Horizontal position adjustment

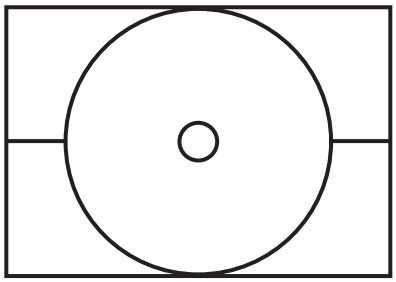
Adjustment preparation

(1) The set should face East or West.
(2) Set video conditions to factory preset.
(3) DIGITAL CONVERGENCE adjustment should be finished. (Progressive mode and HD mode).

Adjustment procedure

PROGRESSIVE MODE

(1) Receive circle pattern signal.
(2) Go to I²C Adjustment mode by pressing INPUT and POWER button on control panel at the same time.
(3) Choose H. POSI item by using thumb stick ▲,▼.
(4) Adjust HOR. POSITION as following by using thumb stick ◄,►.

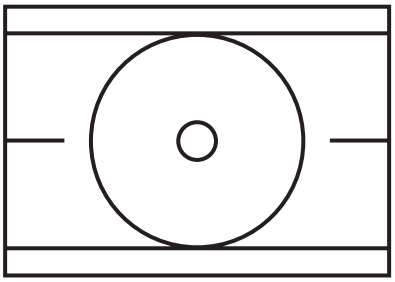


Spec: Balance Left/Right side display position for H. position. H. size marker 0.7~1.5.

BACK TO ADJUSTMENTS

HD MODE

(1) Input 1080i (fH=33.75kHz) component circle pattern signal to VIDEO 1 or 2.
(2) Go to I²C Adjustment mode by pressing INPUT and POWER button on control panel at the same time.
(3) Choose H. POSI item by using thumb stick ▲,▼.
(4) Adjust HOR. POSITION as following by using thumb stick ◀,▶.



Spec: Balance Left/Right side display position for H. position.

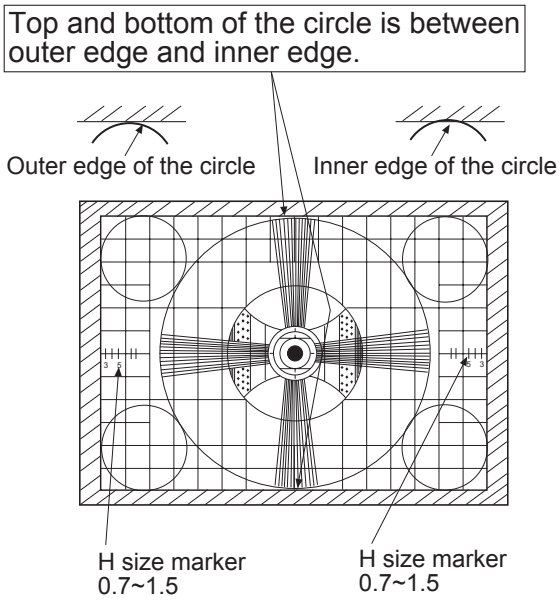
Balance Top/Bottom side display position for V. position (check only).

2.16 Scanning area check

Checking condition

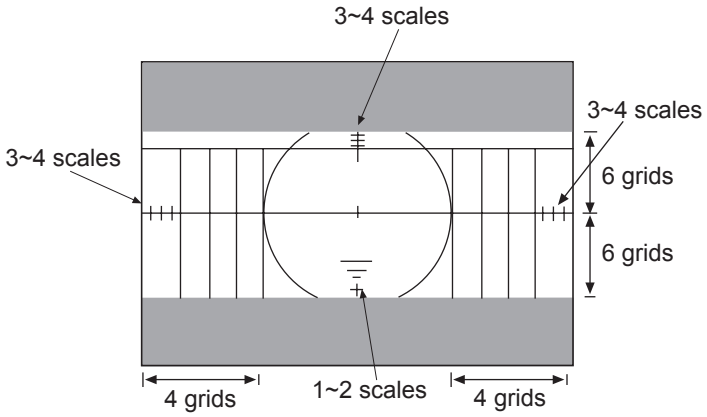
PROGRESSIVE MODE

(1) Digital convergence adjustment should have been completed.
(2) Receive the circle pattern signal.
(3) Brightness/Contrast - standard condition
Contrast:max
Other controls:center position
(4) Check that the scanning area matches with the following drawing.


Top and bottom of the circle is between outer edge and inner edge.
Outer edge of the circle
Inner edge of the circle
H size marker
0.7~1.5
H size marker
0.7~1.5

HD MODE

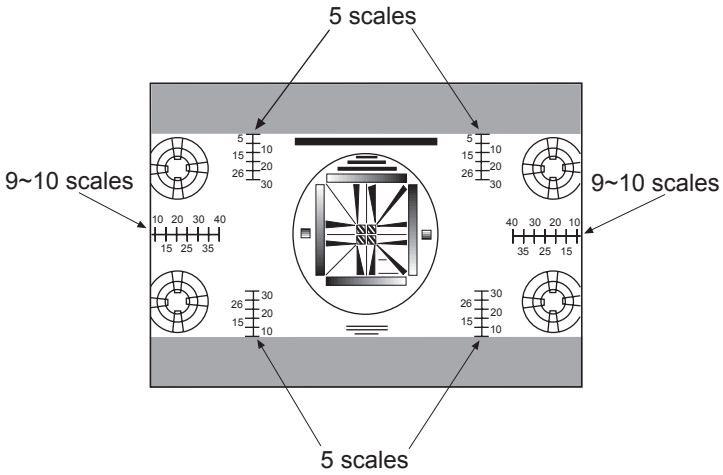
(1) Receive 1080i circle pattern No.59 of LT1611*, LT1608* of LEADER signal generator.



- LT1611 : Programmable Video Generator
- LT1608 : Video Encoder

BACK TO ADJUSTMENTS

(2) Receive 1080i circle pattern of LT-449 (Leader).



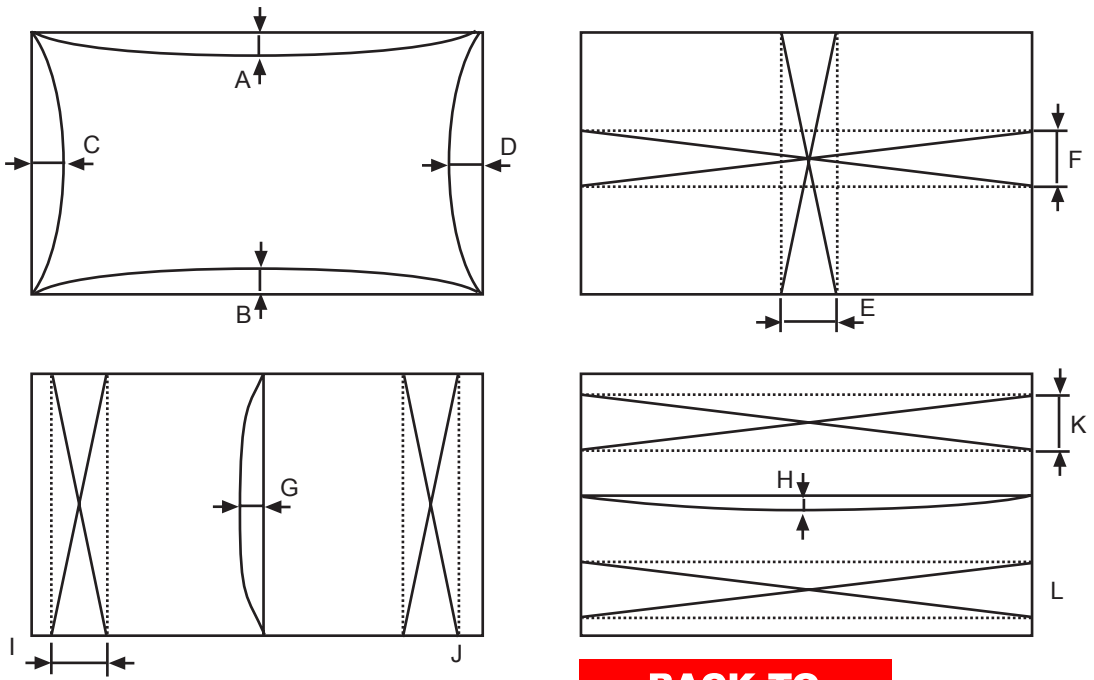
2.17 Raster distortion check

Checking condition

(1) Digital convergence adjustment should have been completed.
(2) Receive the cross-hatch signal (internal signal of the the set is acceptable).
(3) Brightness/Contrast --- standard condition
Contrast : max
Other controls : center position
(4) Check the raster distortion specification: Value shown in the table below or less.
A ~ D
I ~ L ---Measure the winding of the outside line.

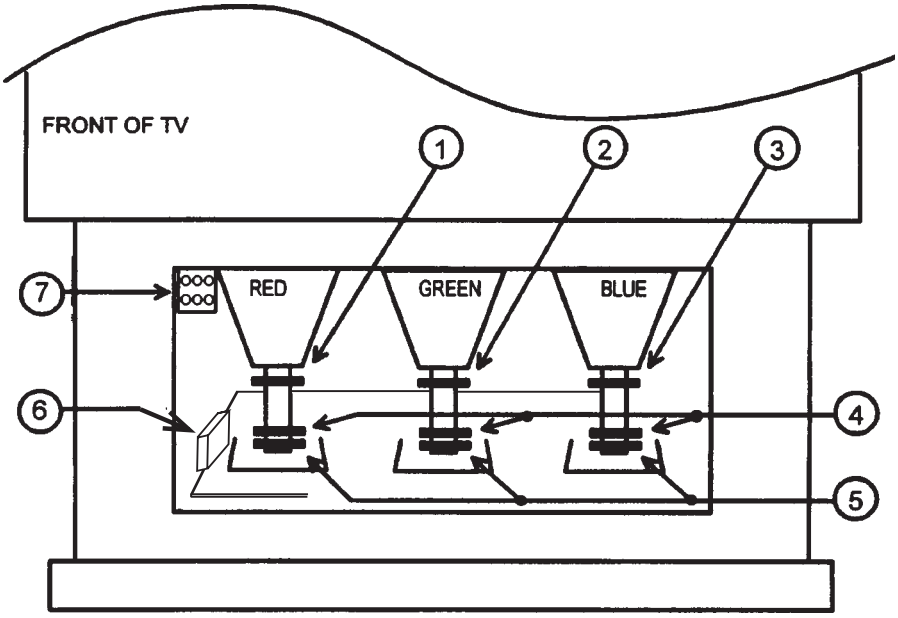
(unit: mm)

Item		Symbol	53”	61”
Top/Bottom pincushion distortion		A,B	±6	±6
Right/Left pincushion distortion		C,D	±4	±5
Center line tilt	Vertical line	5	6	6
	Horizontal line	5	6	6
Center line winding	Vertical line	±3	±3	±4
	Horizontal line	±3	±3	±4
Trapezoidal distortion	Vertical line	4	5	5
Skew distortion	Horizontal line	5	6	6



BACK TO ADJUSTMENTS

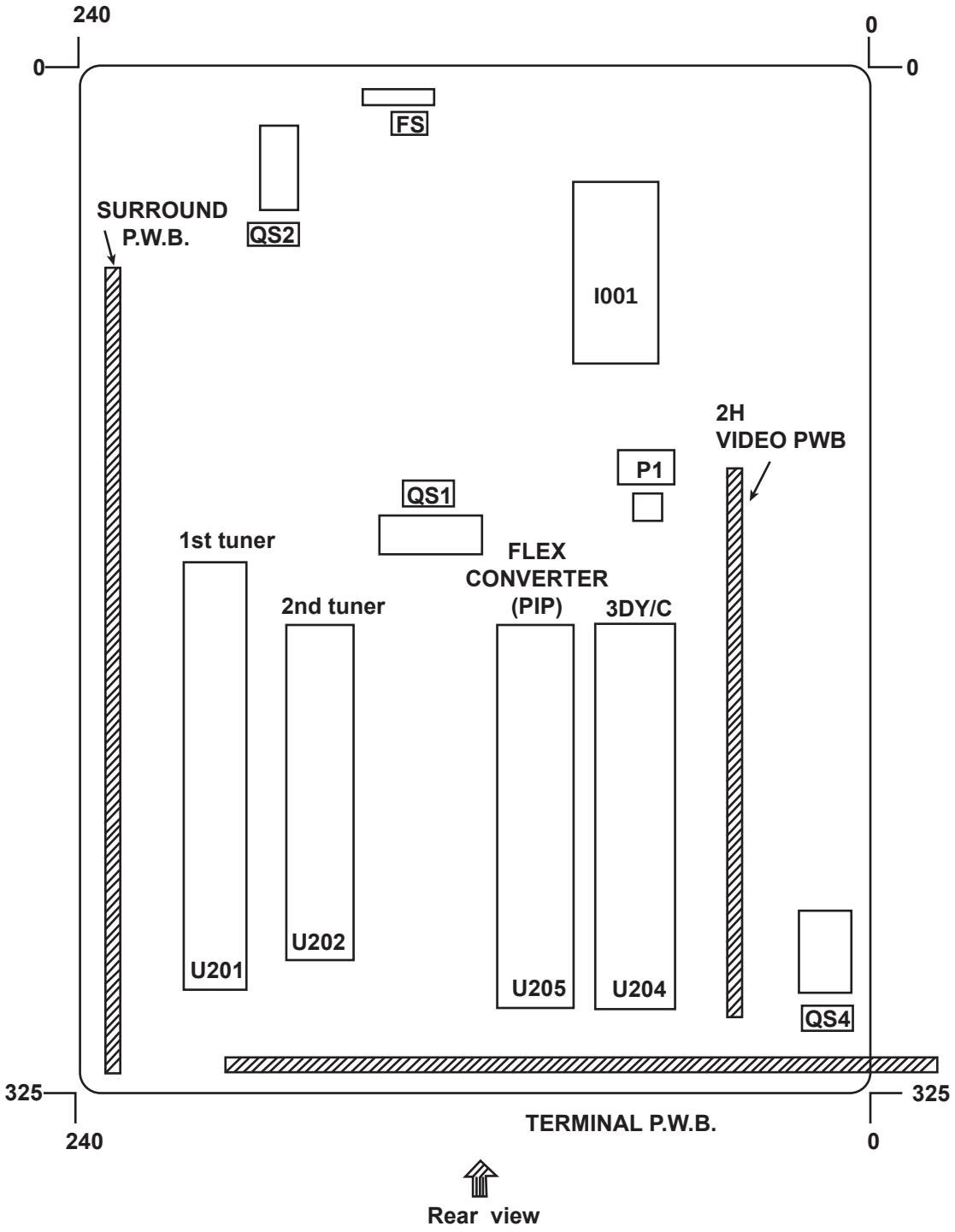
3. ADJUSTMENT POINT
3.1 CRT, cabinet locations



1. CENTERING MAGNET FOR RED PRT
2. CENTERING MAGNET FOR GREEN PRT
3. CENTERING MAGNET FOR BLUE PRT
4. 4-POLE MAGNET FOR BEAM FORM ADJUSTMENT
5. BEAM ALIGNMENT MAGNET
6. DIGITAL CONVERGENCE MODULE (On Power/Deflection Board)
7. FOCUS PACK (Top Adjustments for Screen, Bottom for Focus)

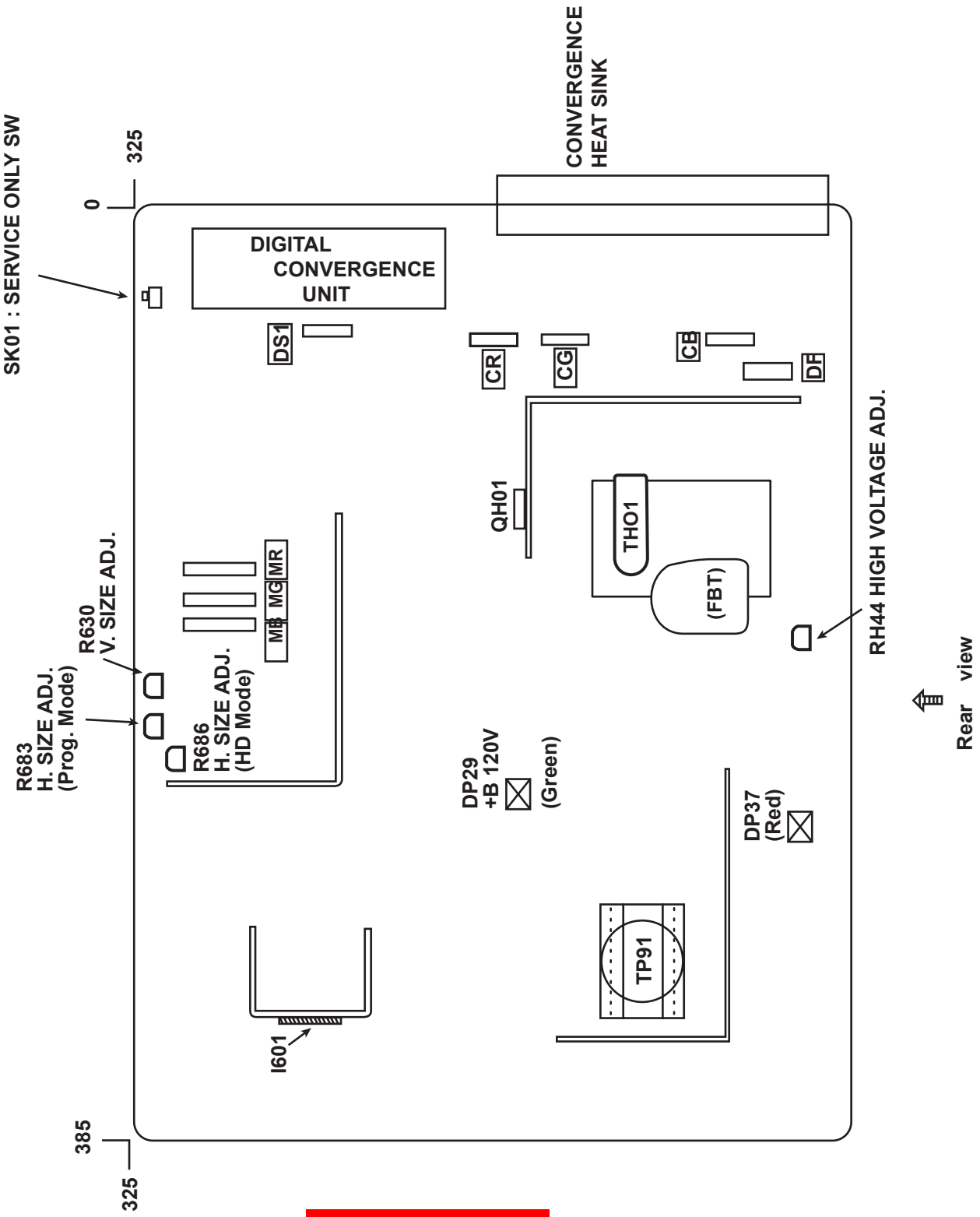
BACK TO ADJUSTMENTS

3.2 MAIN CHASSIS
(Signal P.W.B.)



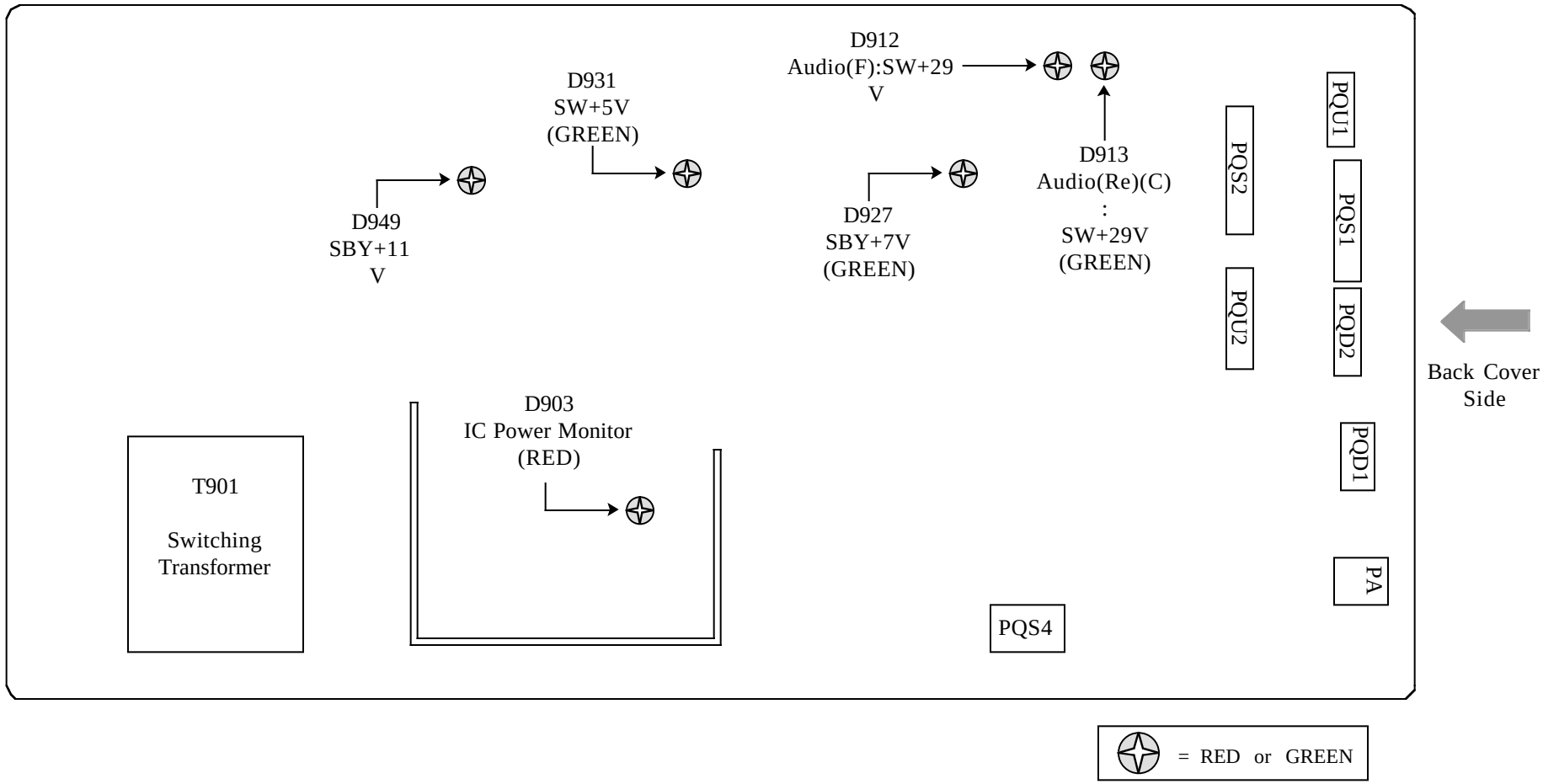
BACK TO ADJUSTMENTS

3.3 MAIN CHASSIS
(Power/Deflection P.W.B.)



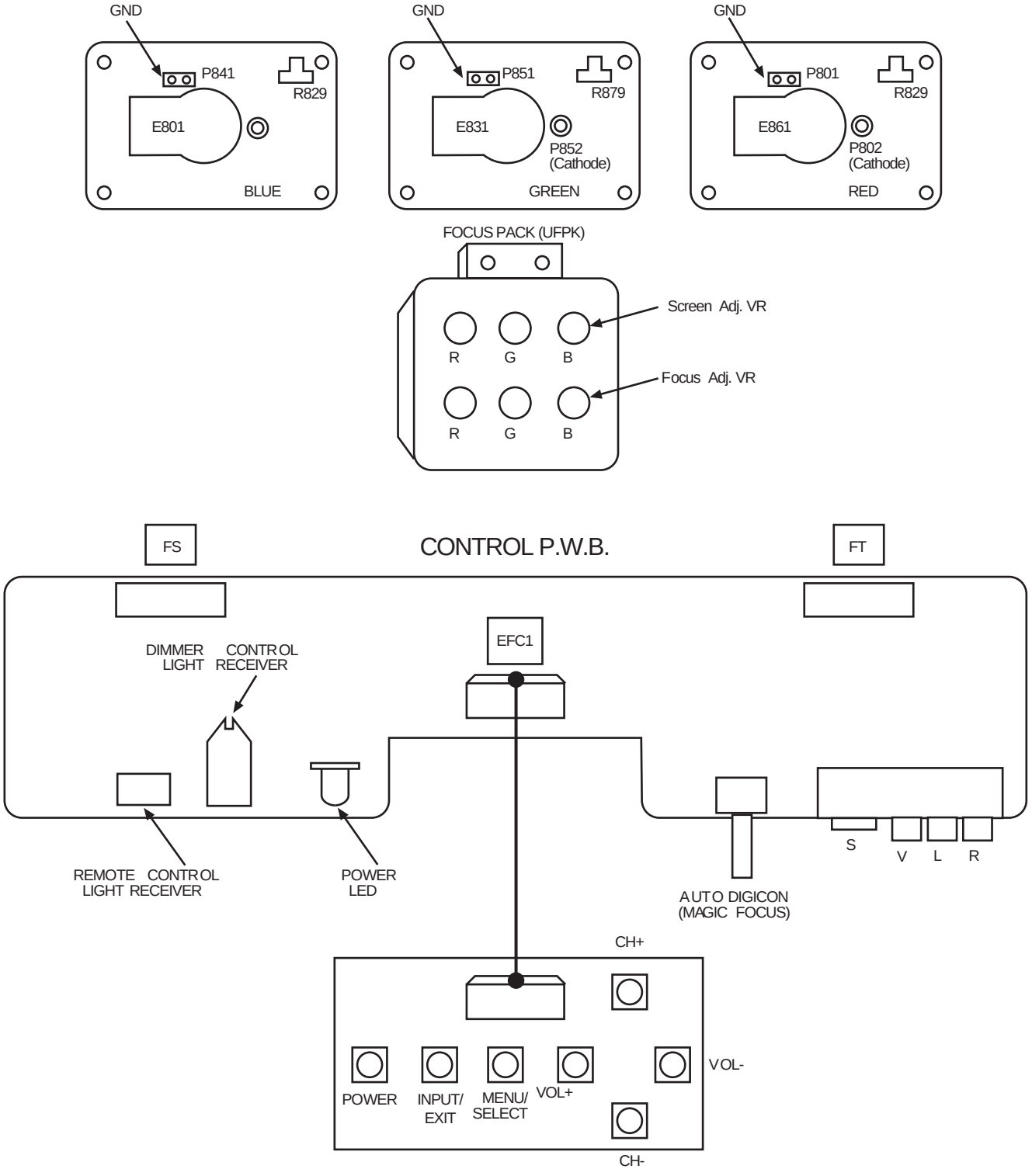
BACK TO ADJUSTMENTS

DP06 POWER SUPPLY P.W.B.

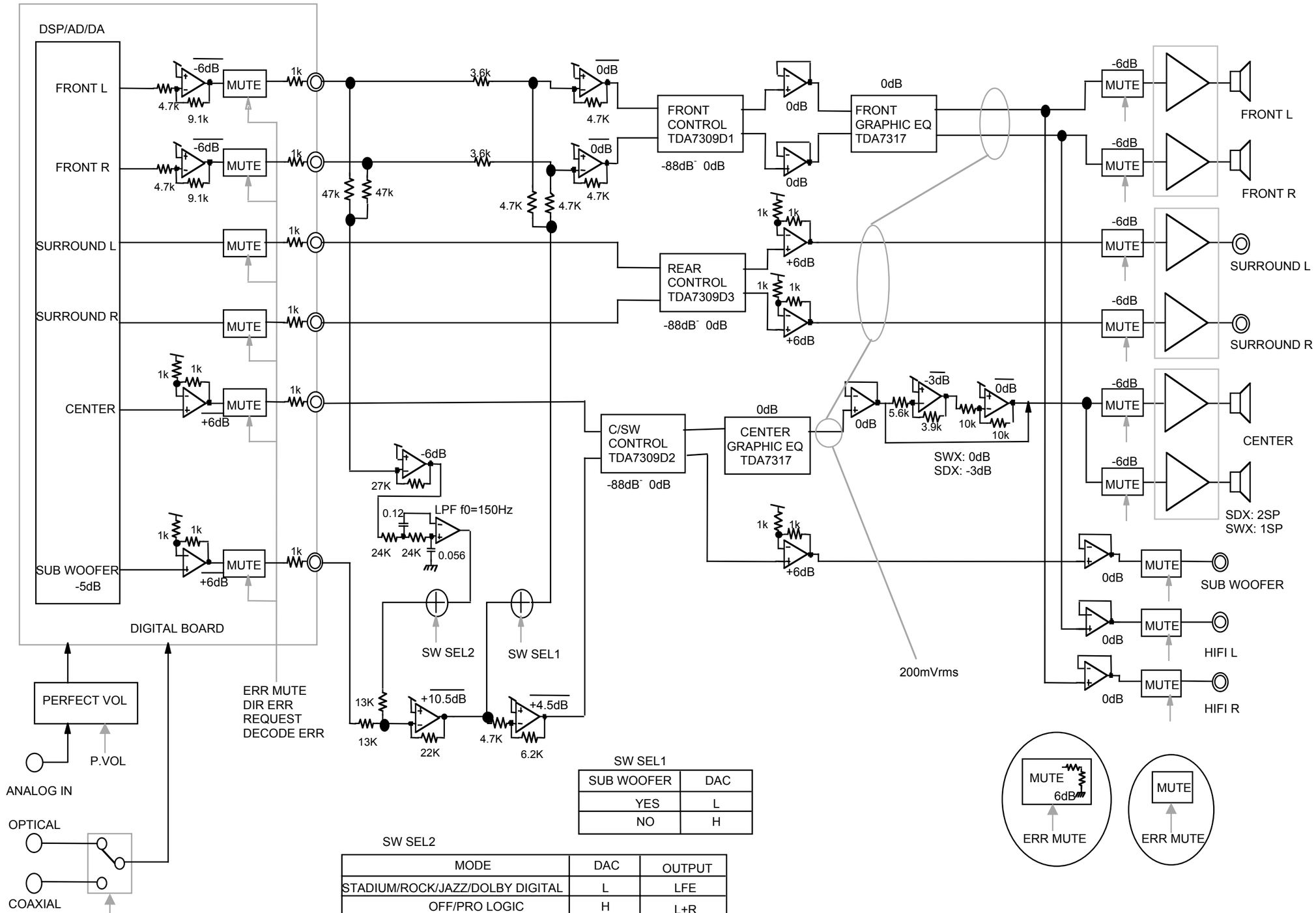


BACK TO ADJUSTMENTS

3.5 CPT (R) (G) (B), Focus Pack, Control P.W.B.



BACK TO ADJUSTMENTS



SW SEL1

SUB WOOFER	DAC
YES	L
NO	H

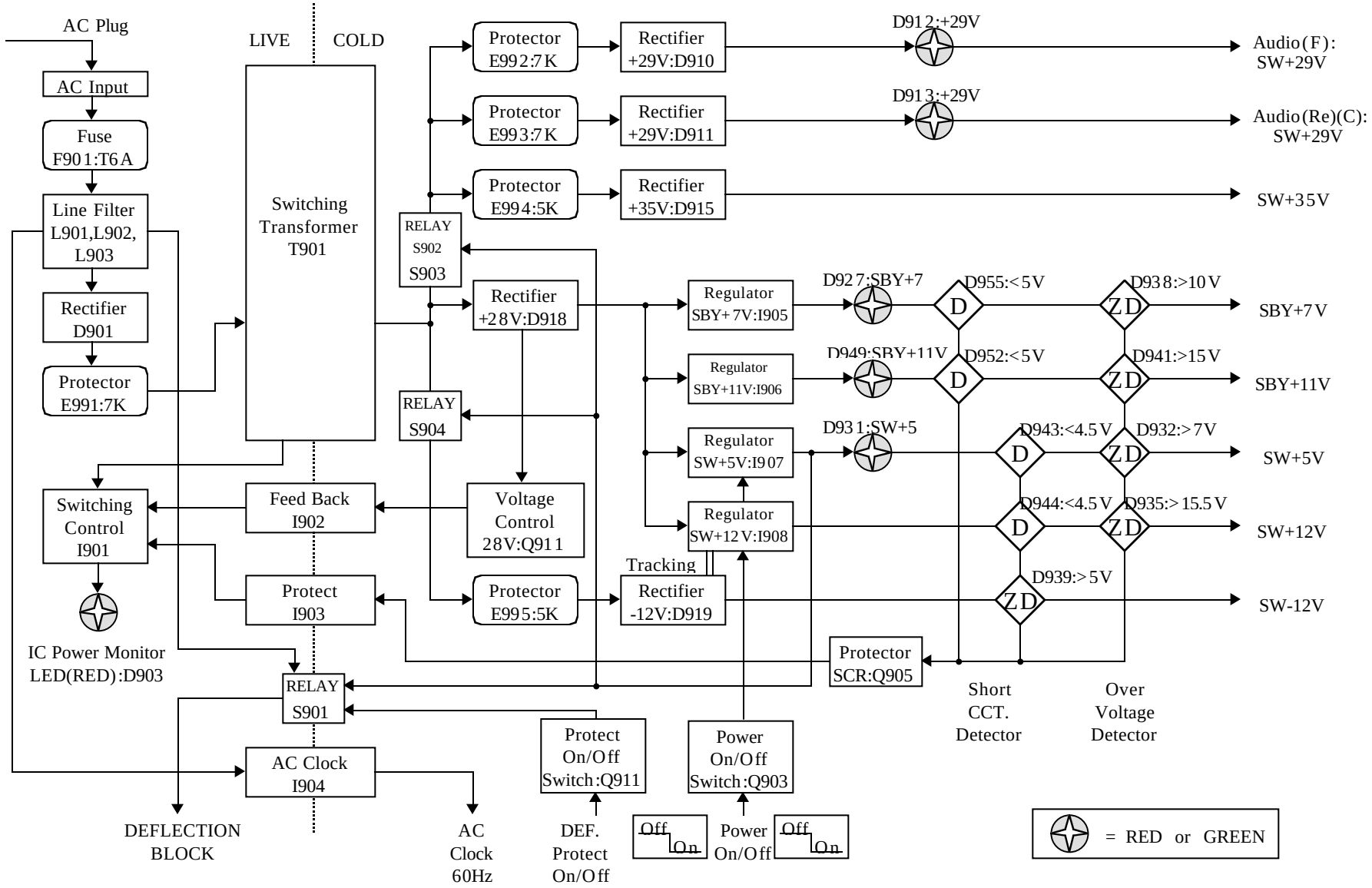
SW SEL2

MODE	DAC	OUTPUT
STADIUM/ROCK/JAZZ/DOLBY DIGITAL	L	LFE
OFF/PRO LOGIC	H	L+R

OPTI/COAX SEL	OUTPUT
L	OPTICAL
MID	COAXIAL
H	MUTE

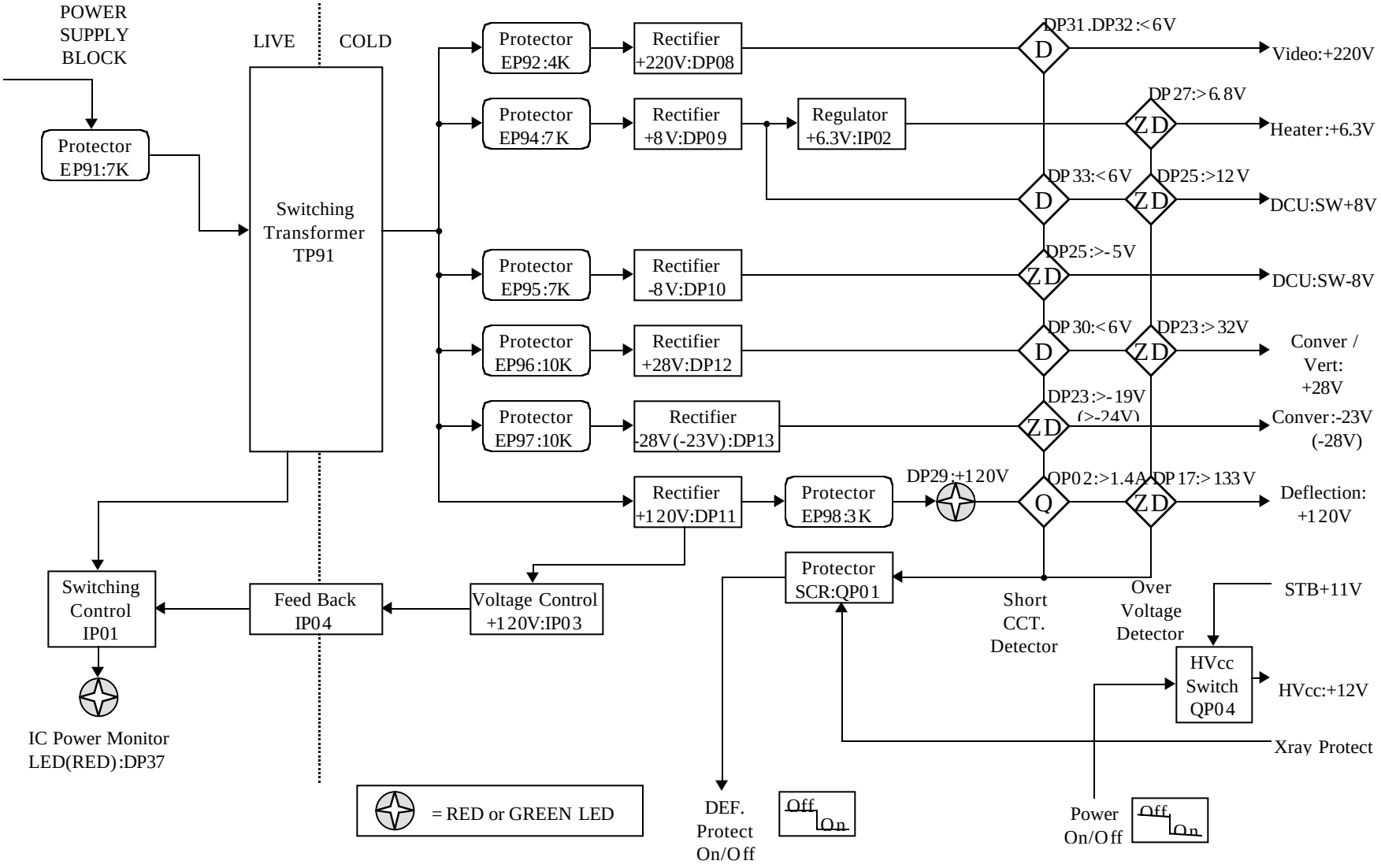
DP0X AUDIO LEVEL DIAGRAM

DP0X PROTECTION CIRCUIT BLOCK DIAGRAM



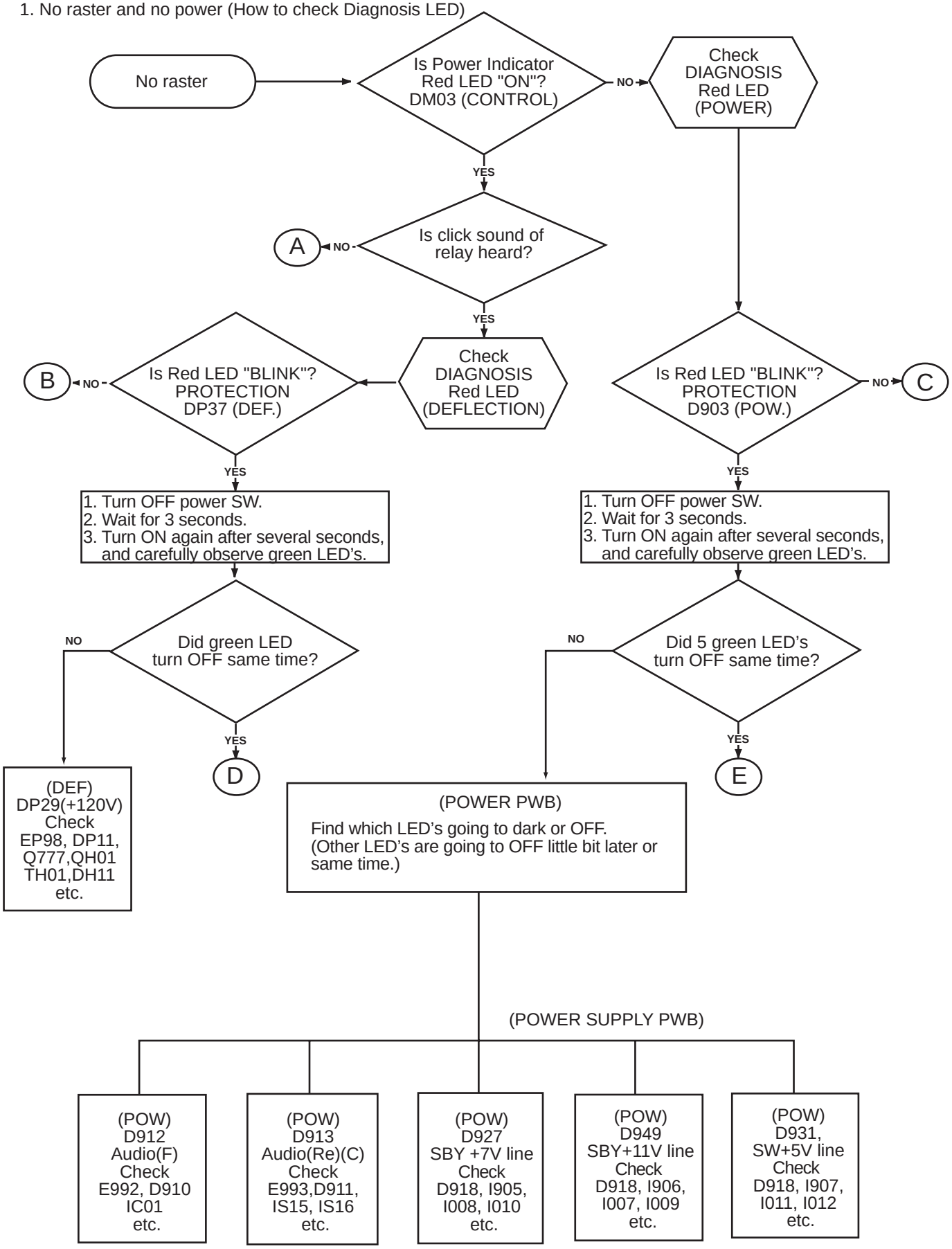
BACK TO ADJUSTMENTS

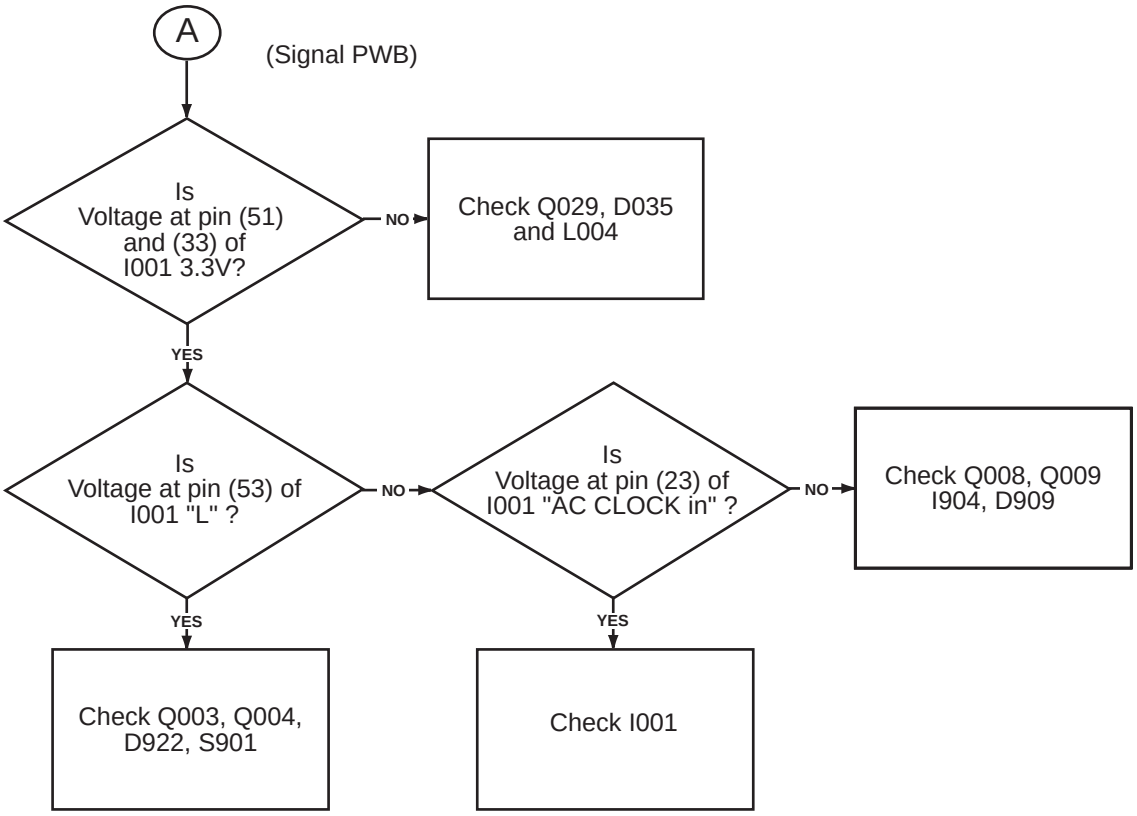
DP0X PROTECTION CIRCUIT BLOCK DIAGRAM

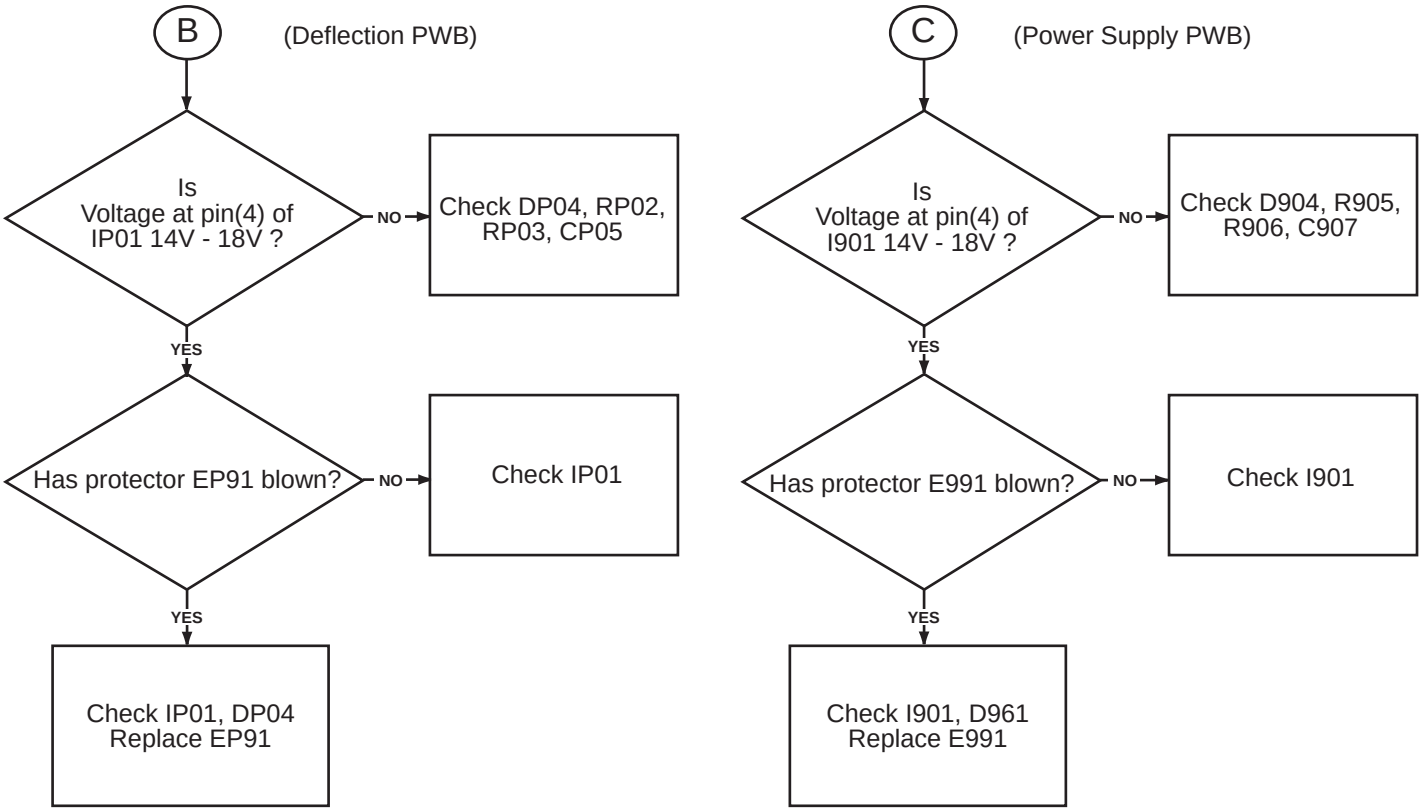


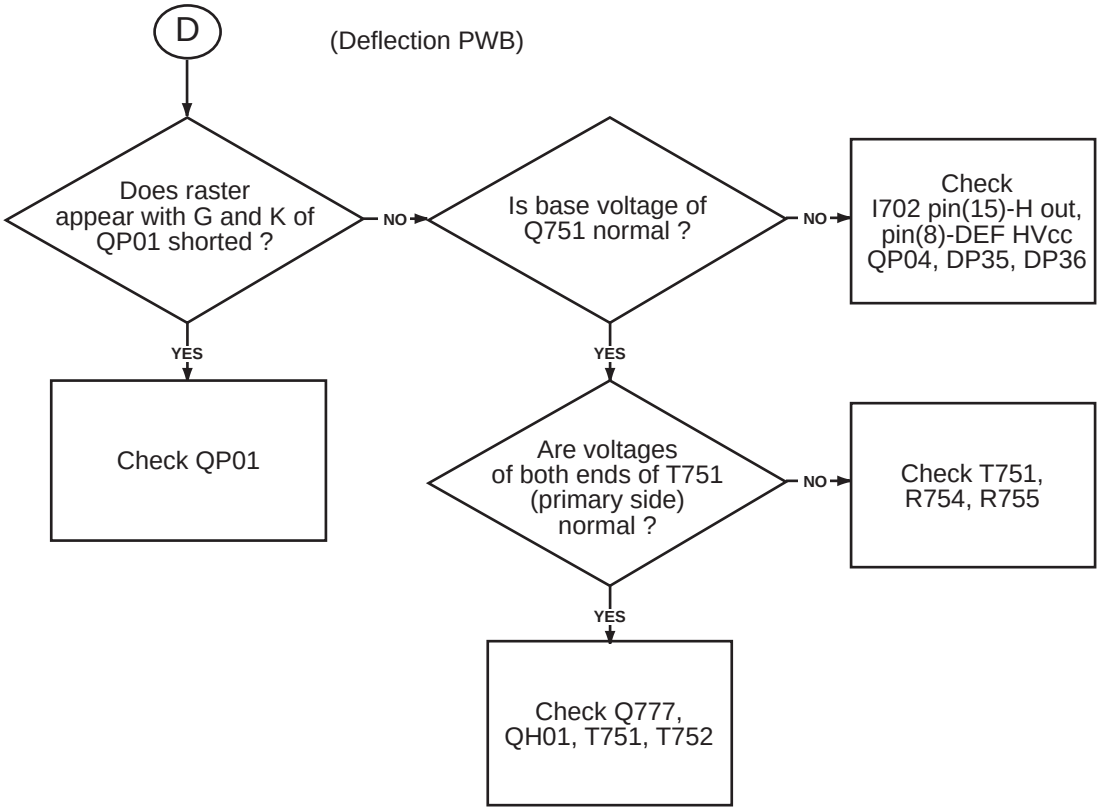
TROUBLE SHOOTING

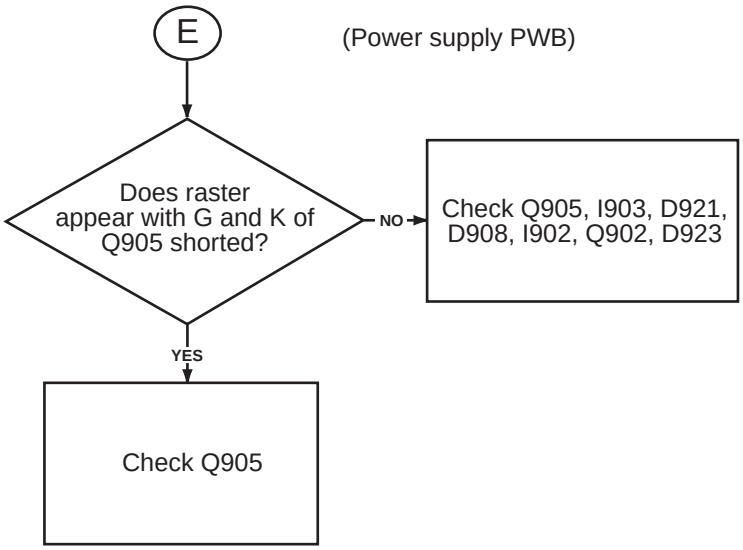
1. No raster and no power (How to check Diagnosis LED)


No raster
Is Power Indicator Red LED "ON"? DM03 (CONTROL)
NO
Check DIAGNOSIS Red LED (POWER)
YES
A
NO
Is click sound of relay heard?
YES
Check DIAGNOSIS Red LED (DEFLECTION)
B
NO
Is Red LED "BLINK"? PROTECTION DP37 (DEF.)
Is Red LED "BLINK"? PROTECTION D903 (POW.)
NO
C
YES
YES
1. Turn OFF power SW.
2. Wait for 3 seconds.
3. Turn ON again after several seconds, and carefully observe green LED's.
1. Turn OFF power SW.
2. Wait for 3 seconds.
3. Turn ON again after several seconds, and carefully observe green LED's.
NO
Did green LED turn OFF same time?
NO
Did 5 green LED's turn OFF same time?
YES
YES
D
E
(DEF) DP29(+120V) Check EP98, DP11, Q777,QH01 TH01,DH11 etc.
(POWER PWB)
Find which LED's going to dark or OFF. (Other LED's are going to OFF little bit later or same time.)
(POWER SUPPLY PWB)
(POW) D912 Audio(F) Check E992, D910 IC01 etc.
(POW) D913 Audio(Re)(C) Check E993,D911, IS15, IS16 etc.
(POW) D927 SBY +7V line Check D918, I905, I008, I010 etc.
(POW) D949 SBY+11V line Check D918, I906, I007, I009 etc.
(POW) D931, SW+5V line Check D918, I907, I011, I012 etc.

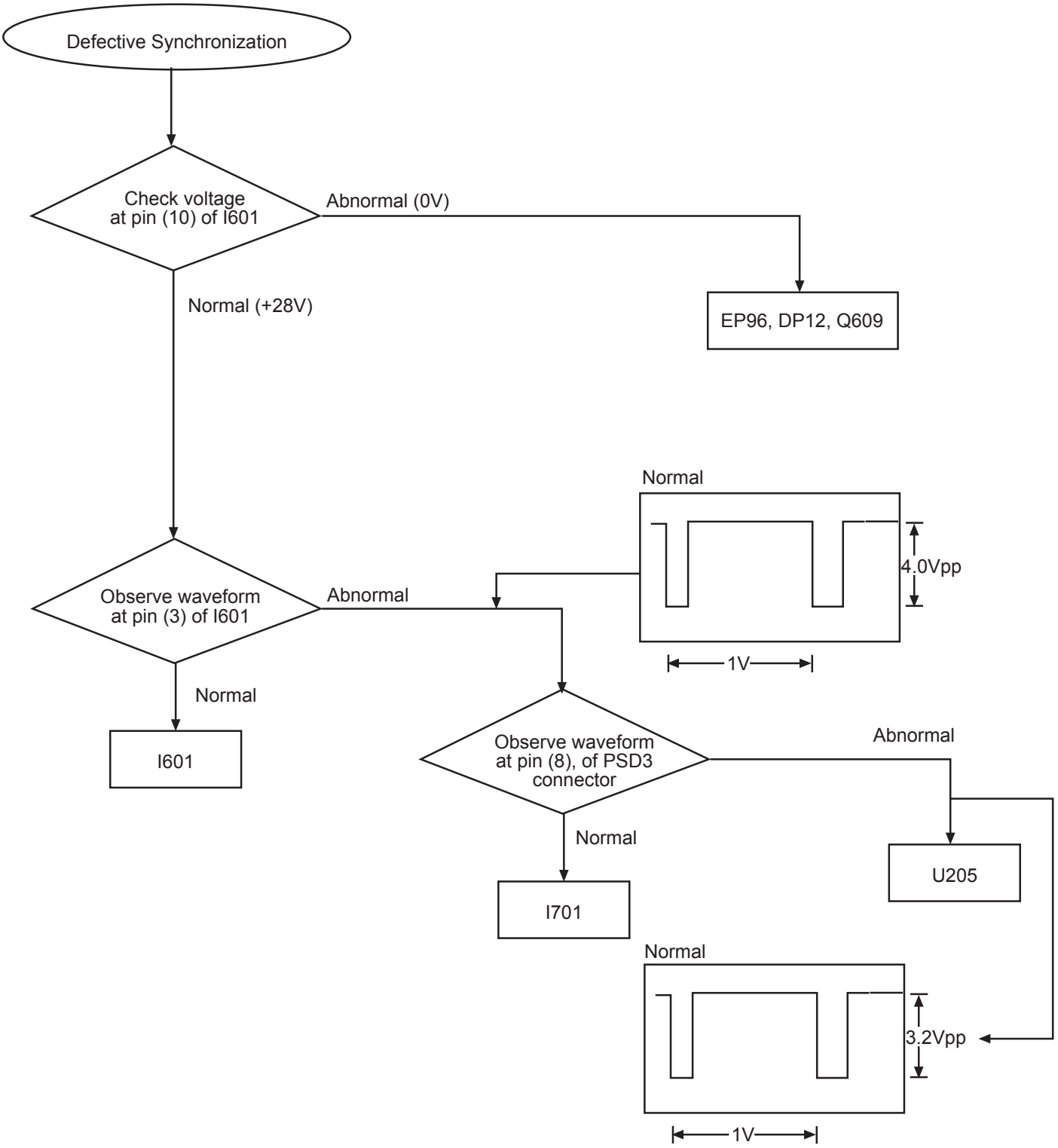

A
(Signal PWB)
Is
Voltage at pin (51)
and (33) of
I001 3.3V?
NO
Check Q029, D035
and L004
YES
Is
Voltage at pin (53) of
I001 "L" ?
NO
Is
Voltage at pin (23) of
I001 "AC CLOCK in" ?
NO
Check Q008, Q009
I904, D909
YES
YES
Check Q003, Q004,
D922, S901
Check I001


B
(Deflection PWB)
Is
Voltage at pin(4) of
IP01 14V - 18V ?
NO
Check DP04, RP02,
RP03, CP05
YES
Has protector EP91 blown?
NO
Check IP01
YES
Check IP01, DP04
Replace EP91
C
(Power Supply PWB)
Is
Voltage at pin(4) of
I901 14V - 18V ?
NO
Check D904, R905,
R906, C907
YES
Has protector E991 blown?
NO
Check I901
YES
Check I901, D961
Replace E991

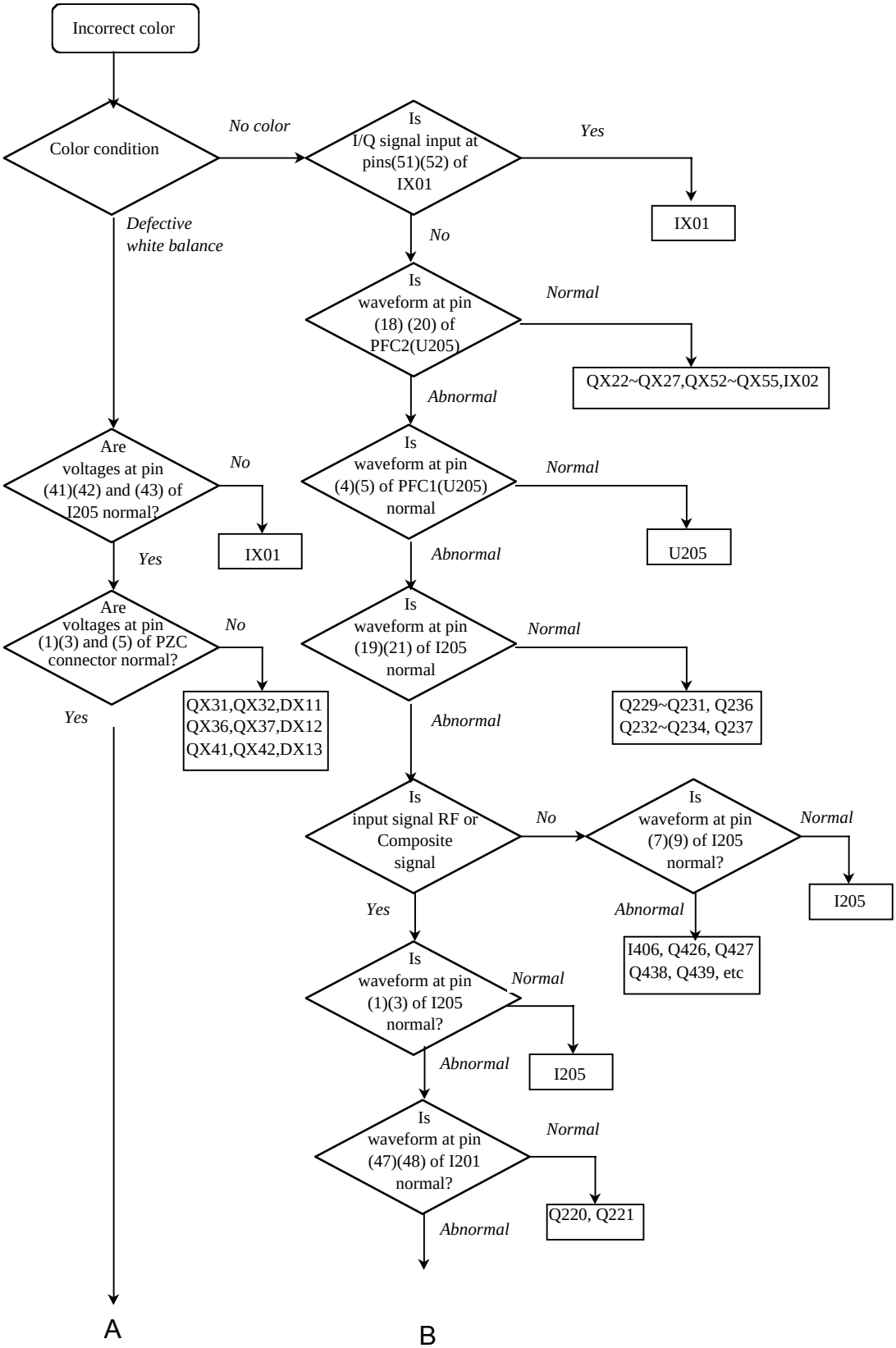

D
(Deflection PWB)
Does raster appear with G and K of QP01 shorted ?
NO
Is base voltage of Q751 normal ?
NO
Check I702 pin(15)-H out, pin(8)-DEF HVcc QP04, DP35, DP36
YES
Check QP01
YES
Are voltages of both ends of T751 (primary side) normal ?
NO
Check T751, R754, R755
YES
Check Q777, QH01, T751, T752

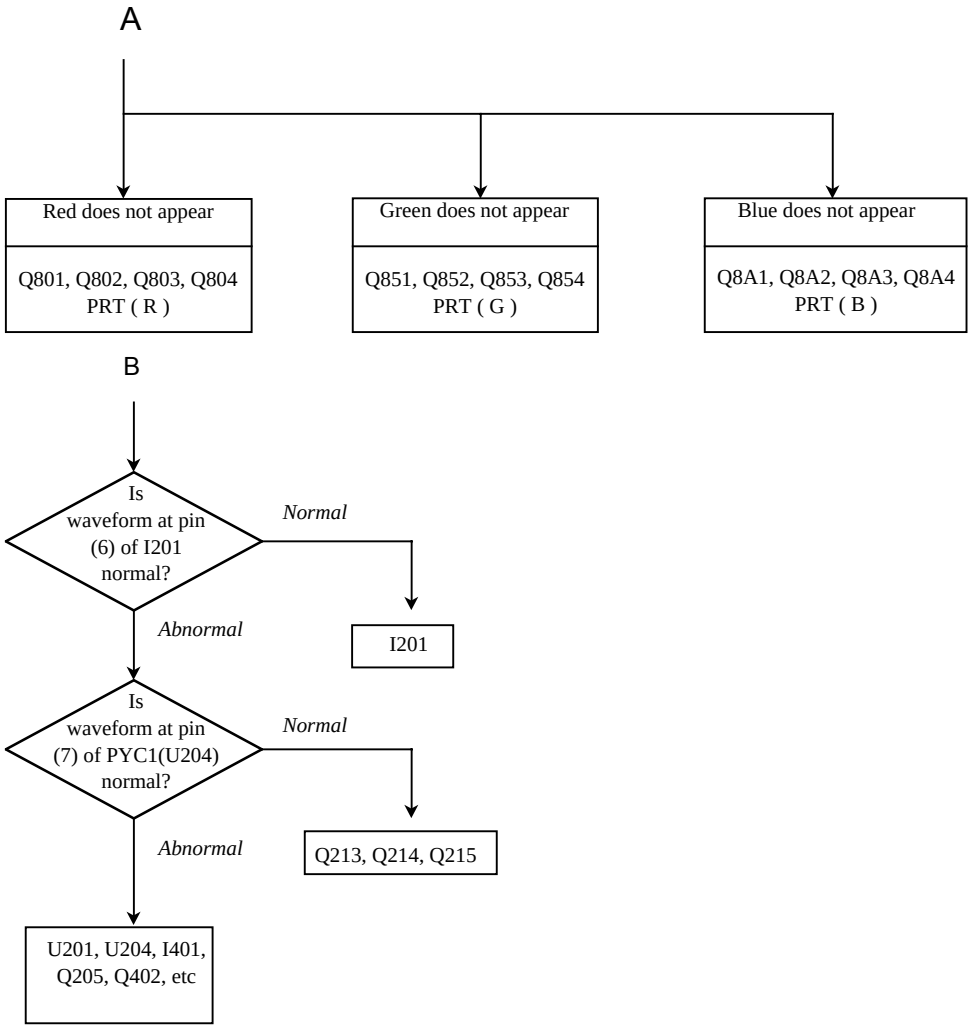

E
(Power supply PWB)
Does raster appear with G and K of Q905 shorted?
NO
Check Q905, I903, D921, D908, I902, Q902, D923
YES
Check Q905

2. Defective Synchronization



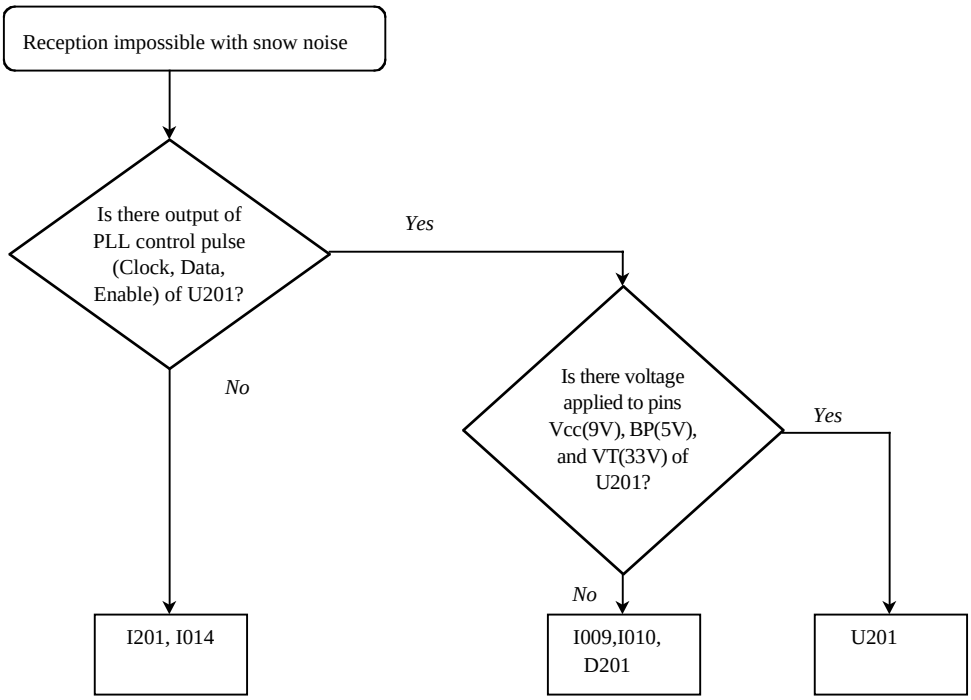
3. INCORRECT COLOR



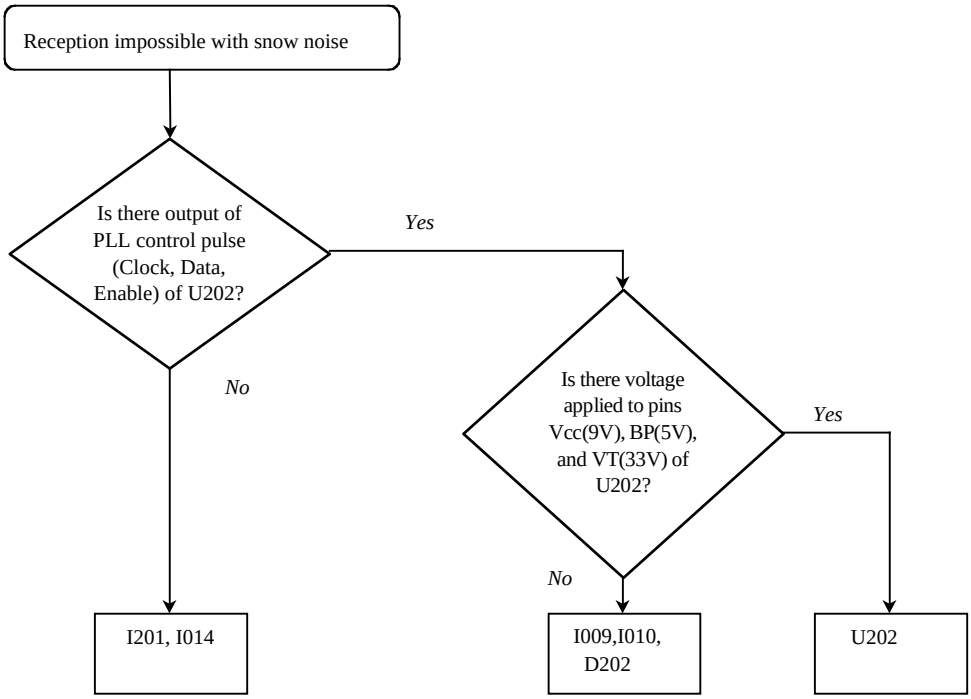

A
Red does not appear
Q801, Q802, Q803, Q804
PRT (R)
Green does not appear
Q851, Q852, Q853, Q854
PRT (G)
Blue does not appear
Q8A1, Q8A2, Q8A3, Q8A4
PRT (B)
B
Is waveform at pin (6) of I201 normal?
Normal
I201
Abnormal
Is waveform at pin (7) of PYC1(U204) normal?
Normal
Q213, Q214, Q215
Abnormal
U201, U204, I401, Q205, Q402, etc

4. SNOW NOISE

ANT A



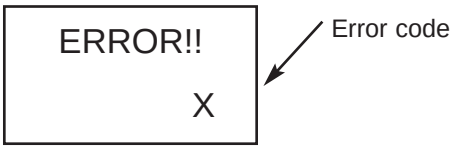
ANT B

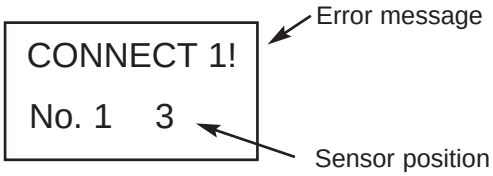


5. Convergence Errors.

If an error message or code appears while performing MAGIC FOCUS or initialize (PIP MODE, PIP CH in service mode) follow this confirmation and repair method.

1. Turn on power and receive any signal.
2. Press service switch on Power/Deflection board.
3. Press “SWAP” then “PIP CH” on remote control.
4. Error code will be displayed in bottom right corner of screen. If there is no error, an “INITIAL OK” message will appear on screen.





5. Follow repair table for errors.

DCU REPAIR TABLE

Error Code	Error Display Code	Countermeasure	Application	
			Initialize	Magic Focus
1	VF Error	Replace DCU	X	X
2 *2	Connect 1	1. Darken Outside Light 2. Placing of sensor 3. Is pattern hitting sensor 4. Check connection and solder bridge of sensor 5. Replace sensor 6. Replace sernsor P.W.B. 7. Sensor Connector check 8. Replace DCU 9. Adjustment check (H/V size, centering)	X	—
3*2	A/D Level	Same as Error Code 2	X	X
4	Over Flow	1. Check the placement of sensor 2. Adjustment check (H/V size, centering) 3. Conv. amp. gain check *1 (check resistor values only)	X	X
5	Convergence	Same as Error Code 4	X	X
7	Operation	Same as Error Code 4	—	X
9	Connect 2	Same as Error Code 2	X	X
10	Noise	Input strong field signal Check the wiring of connec tor between sensor and DCU	X	X
11	Sync	Input strong field signal Check the wiring of connetor between sensor and DCU	X	X

*1 -- RK 41, 46, 50, 54, 58, 62 check these resistors.

*2 Sensor Position

0	1	2
7		3
6	5	4

(View from front side)

DC VOLTAGE TABLES

Signal 1 of 3

Symbol	Pin No.	Vdc	Pin No.	Vdc
I001	1	0.0	33	3.2
	2	4.9	34	1.7
	3	4.9	35	1.6
	4	3.6	36	1.6
	5	3.3	37	0.0
	6	2.1	38	0.0
	7	3.1	39	0.0
	8	3.2	40	0.0
	9	3.2	41	1.4
	10	3.7	42	1.4
	11	3.7	43	0.0
	12	3.3	44	0.3
	13	0.0	45	0.0
	14	0.0	46	2.9
	15	1.6	47	1.8
	16	3.1	48	1.8
	17	0.1	49	2.7
	18	0.1	50	2.9
	19	3.1	51	0.0
	20	3.0	52	3.2
	21	2.9	53	2.8
	22	3.8	54	3.2
	23	1.5	55	3.2
	24	2.7	56	0.0
	25	3.2	57	0.0
	26	2.0	58	0.0
	27	2.3	59	4.8
	28	1.4	60	4.8
	29	0.0	61	3.2
	30	1.4	62	1.6
	31	2.3	63	1.6
	32	1.4	64	0.0
I002	1	0.0	5	4.8
	2	0.0	6	0.0
	3	0.0	7	0.0
	4	0.0	8	5.0
I003	1	0.2	9	0.0
	2	4.6	10	0.0
	3	4.6	11	0.0
	4	4.0	12	0.0
	5	4.0	13	0.0
	6	4.6	14	4.9
	7	0.0	15	4.8
	8	0.0	16	5.0
I004	1	5.0	9	0.0
	2	5.0	10	0.0
	3	0.4	11	0.0
	4	4.6	12	0.0
	5	4.6	13	0.0
	6	0.4	14	4.8
	7	0.4	15	4.9
	8	0.0	16	5.0
I005	1	5.0	9	0.0
	2	5.0	10	0.0
	3	0.0	11	0.0
	4	0.0	12	2.5
	5	5.3	13	1.6
	6	0.0	14	2.5
	7	0.0	15	5.0
	8	0.0	16	9.1

Symbol	Pin No.	Vdc
I006	1	3.2
	2	0.0
	3	3.2
I007	1	10.8
	2	0.0
	3	9.1
I008	1	7.0
	2	0.0
	3	5.0
I009	1	0.0
	2	4.2
	3	0.0
	4	9.1
	5	10.9
I010	1	0.0
	2	4.2
	3	5.0
	4	5.0
	5	7.0
I011	1	5.3
	2	0.0
	3	2.5
I012	1	5.3
	2	0.0
	3	3.3

Symbol	Pin No.	Vdc	Pin No.	Vdc
I014	1	5.0	11	5.0
	2	3.0	12	0.0
	3	2.9	13	0.0
	4	2.9	14	4.9
	5	1.6	15	2.4
	6	3.0	16	4.6
	7	0.0	17	4.7
	8	0.1	18	4.7
	9	3.1	19	0.0
	10	0.0	20	5.0

Symbol	Pin No.	Vdc
I015	1	2.7
	2	5.0
	3	0.0
	4	3.8
	5	5.0
I016	1	2.6
	2	5.0
	3	0.0
	4	5.0
	5	5.0

Symbol	Pin No.	Vdc
PFS	1	9.2
	2	0.0
	3	5.0
	4	3.6
	5	0.0
	6	0.0
	7	3.3
	8	3.3
	9	5.0
PJIG1	1	3.2
	2	4.4
	3	3.0
PJIG2	1	3.2
	2	4.4
	3	3.0
PJIG3	1	3.2
	2	3.2
	3	0.0
PP1	1	3.0
	2	3.0

Symbol	Pin No.	Vdc	Pin No.	Vdc
PSU1	1	4.8	11	4.5
	2	4.8	12	0.0
	3	4.8	13	0.0
	4	0.0	14	0.0
	5	0.0	15	4.0
	6	0.4	16	0.0
	7	0.0	17	5.0
	8	3.6	18	5.0
	9	3.6	19	9.2
	10	0.0	20	9.2
PSU2	1	5.0	11	0.0
	2	4.9	12	4.8
	3	0.0	13	0.0
	4	0.0	14	0.0
	5	2.4	15	0.0
	6	0.0	16	0.0
	7	4.8	17	0.0
	8	0.0	18	0.0
	9	0.0	19	30.0
	10	0.0	20	29.7
PQS1	1	33.2	6	0.0
	2	0.0	7	0.0
	3	10.8	8	0.0
	4	10.8	9	0.0
	5	10.8	10	4.1
PQS2	1	7.0	7	5.3
	2	7.0	8	5.3
	3	7.0	9	0.0
	4	0.0	10	2.5
	5	0.0	11	3.3
	6	0.0	--	--

DC VOLTAGE TABLES

Signal 1 of 3 Cont.

Q001	B	7.6
	C	0.0
	E	7.6
Q002	B	0.7
	C	0.0
	E	0.0
Q003	B	0.7
	C	0.0
	E	0.0
Q004	B	0.0
	C	4.7
	E	0.0
Q005	B	0.0
	C	3.2
	E	0.0
Q006	B	-1.7
	C	2.7
	E	0.0
Q007	B	0.0
	C	0.0
	E	0.7
Q008	B	0.4
	C	2.4
	E	0.1
Q009	B	0.5
	C	1.5
	E	0.1
Q010	B	3.2
	C	0.0
	E	3.2

Q014	B	0.0
	C	3.1
	E	0.1
Q015	B	0.6
	C	0.1
	E	0.0
Q016	B	0.0
	C	3.8
	E	0.0
Q017	B	0.1
	C	2.7
	E	0.0
Q018	B	5.9
	C	0.6
	E	5.9
Q019	B	5.3
	C	0.0
	E	5.9
Q021	B	5.3
	C	9.1
	E	4.6
Q022	B	0.0
	C	10.8
	E	0.0
Q023	B	10.8
	C	0.0
	E	10.8
Q024	B	0.0
	C	10.8
	E	0.0
Q029	B	3.9
	C	5.0
	E	3.3

Q030	B	0.7
	C	0.0
	E	0.0
Q031	B	5.3
	C	9.1
	E	4.6
Q034	B	2.5
	C	0.0
	E	3.2
Q035	B	3.2
	C	9.1
	E	2.6
Q036	B	0.0
	C	5.0
	E	0.0
Q037	G	5.0
	C	0.0
	E	5.0
Q038	B	0.0
	C	5.0
	E	0.0
Q039	B	5.0
	C	0.0
	E	5.0
Q040	B	0.7
	C	0.0
	E	0.0
Q046	B	5.0
	C	5.0
	E	4.4

DC VOLTAGE TABLES

Signal 2 of 3

Symbol	Pin No.	Vdc
EAN	1	0.0
	2	0.0
	3	9.1

Symbol	Pin No.	Vdc	Pin No.	Vdc
I201	1	4.0	25	0.6
	2	4.0	26	1.2
	3	4.0	27	0.0
	4	2.1	28	0.0
	5	0.0	29	1.3
	6	1.8	30	1.3
	7	0.0	31	1.3
	8	2.9	32	0.0
	9	0.0	33	4.8
	10	0.0	34	3.6
	11	0.0	35	0.0
	12	6.0	36	0.0
	13	4.9	37	2.2
	14	0.2	38	4.2
	15	1.2	39	2.8
	16	0.0	40	2.7
	17	0.1	41	4.9
	18	9.1	42	4.9
	19	9.1	43	0.0
	20	4.1	44	3.1
	21	3.2	45	0.0
	22	2.7	46	3.1
	23	0.0	47	2.3
	24	0.0	48	2.5
I202	1	4.9	9	4.2
	2	5.0	10	4.2
	3	0.2	11	4.2
	4	0.2	12	0.0
	5	0.0	13	0.0
	6	0.0	14	0.0
	7	0.0	15	4.9
	8	0.0	16	5.0
I203	1	0.2	8	5.0
	2	4.9	9	0.0
	3	4.9	10	4.9
	4	0.2	11	0.2
	5	5.0	12	0.2
	6	0.0	13	4.9
	7	0.0	14	5.0
I205	1	3.6	13	0.0
	2	0.0	14	0.0
	3	3.6	15	2.2
	4	0.0	16	4.1
	5	3.6	17	0.0
	6	0.0	18	2.5
	7	0.0	19	2.2
	8	0.0	20	5.0
	9	0.0	21	2.2
	10	0.0	22	0.0
	11	0.0	23	0.0
	12	0.0	24	0.0
I207	1	2.6		
	2	5.0		
	3	0.0		
	4	5.0		
	5	5.0		

Symbol	Pin No.	Vdc	Pin No.	Vdc
PFC1	1	5.0	12	4.6
	2	0.0	13	9.2
	3	5.0	14	0.2
	4	4.9	15	4.9
	5	4.9	16	0.0
	6	0.0	17	5.0
	7	0.2	18	4.9
	8	4.9	19	5.0
	9	0.0	20	0.0
	10	4.7	21	0.0
	11	4.7	22	3.3
PFC2	1	2.5	12	0.5
	2	2.5	13	0.0
	3	0.0	14	0.0
	4	0.3	15	0.0
	5	1.2	16	4.3
	6	3.2	17	0.0
	7	3.0	18	4.3
	8	0.2	19	0.0
	9	0.0	20	4.3
	10	0.0	21	9.1
	11	0.0	22	9.1

Symbol	Pin No.	Vdc
PGS3	1	0.0
	2	0.0
	3	0.0
PSD1	1	0.0
	2	0.0
	3	0.0
	4	0.0
	5	5.0
	6	0.0
	7	0.0
PSD2	1	4.8
	2	4.8
	3	4.2
	4	0.0
	5	9.2
	6	0.0
	7	0.0
PSD3	1	10.4
	2	0.1
	3	0.0
	4	3.6
	5	0.0
	6	1.5
	7	0.0
	8	3.2
	9	0.0
	10	0.6
	11	0.0
	12	0.0
	13	0.0

Symbol	Pin No.	Vdc	Pin No.	Vdc
PST1	1	4.8	11	4.5
	2	4.8	12	4.5
	3	0.0	13	0.0
	4	4.6	14	6.3
	5	4.9	15	0.0
	6	4.8	16	4.6
	7	0.0	17	4.6
	8	1.8	18	0.0
	9	1.8	19	1.3
	10	0.0	20	0.0
PST2	1	0.0	11	2.4
	2	0.0	12	0.0
	3	3.8	13	2.4
	4	0.0	14	0.0
	5	3.7	15	4.9
	6	0.0	16	0.0
	7	3.7	17	4.9
	8	0.0	18	0.0
	9	1.3	19	4.9
	10	0.0	20	0.0
PST3	1	0.2	11	0.0
	2	0.0	12	0.0
	3	4.9	13	9.2
	4	0.0	14	9.2
	5	0.0	15	0.0
	6	0.0	16	0.0
	7	0.0	17	5.0
	8	0.0	18	5.0
	9	9.1	19	0.0
	10	9.1	20	0.0
PSZ1	1	9.2	11	0.0
	2	9.2	12	0.0
	3	0.0	13	0.0
	4	5.0	14	0.0
	5	5.0	15	0.0
	6	0.0	16	0.0
	7	0.0	17	0.0
	8	0.0	18	0.0
	9	0.0	19	0.8
	10	0.0	20	0.0
PSZ2	1	4.8	11	0.0
	2	4.8	12	0.5
	3	0.0	13	0.3
	4	4.7	14	0.0
	5	10.3	15	4.3
	6	0.0	16	0.0
	7	0.0	17	4.3
	8	1.2	18	0.0
	9	0.0	19	4.3
	10	0.2	20	0.0
PYC1	1	0.0	9	2.8
	2	4.8	10	0.0
	3	4.8	11	3.8
	4	5.0	12	0.0
	5	0.0	13	3.8
	6	9.2	14	0.0
	7	3.8	15	0.0
	8	0.0	–	--

DC VOLTAGE TABLES

Signal 2 of 3 Cont.

Q201	B	0.7
	C	0.0
	E	0.0
Q202	B	0.7
	C	0.0
	E	0.0
Q203	B	0.7
	C	0.0
	E	0.0
Q204	B	0.7
	C	0.0
	E	0.0
Q205	B	7.0
	C	9.2
	E	6.4
Q206	B	1.7
	C	9.2
	E	1.1
Q207	B	0.7
	C	0.0
	E	0.0
Q208	B	3.9
	C	0.0
	E	4.5
Q209	B	5.0
	C	9.2
	E	5.4
Q210	B	4.0
	C	0.0
	E	4.6
Q211	B	5.0
	C	9.2
	E	5.4
Q212	B	2.8
	C	0.0
	E	0.0

Q213	B	3.8
	C	9.1
	E	3.2
Q214	B	4.0
	C	9.1
	E	3.4
Q215	B	0.0
	C	9.1
	E	0.1
Q216	B	2.8
	C	0.0
	E	3.4
Q217	B	4.8
	C	9.1
	E	4.1
Q220	B	2.5
	C	0.0
	E	3.1
Q221	B	2.3
	C	0.0
	E	3.0
Q222	B	2.2
	C	0.0
	E	2.8
Q223	B	1.4
	C	0.0
	E	2.0
Q226	B	3.7
	C	8.5
	E	3.1
Q227	B	8.5
	C	5.5
	E	9.1
Q228	B	5.5
	C	9.1
	E	4.9

Q230	B	5.5
	C	4.9
	E	9.1
Q231	B	0.1
	C	0.8
	E	0.1
Q232	B	3.7
	C	8.5
	E	3.1
Q233	B	8.5
	C	5.6
	E	9.1
Q235	B	6.2
	C	9.1
	E	5.5
Q237	B	5.6
	C	9.1
	E	4.9
Q239	B	0.7
	C	0.1
	E	0.0
Q240	B	4.2
	C	9.1
	E	4.9

DC VOLTAGE TABLES

Signal 3 of 3

Symbol	Pin No.	Vdc	Pin No.	Vdc
IC01	1	1.6	7	14.0
	2	0.0	8	0.0
	3	0.0	9	30.0
	4	0.0	10	0.0
	5	1.5	11	4.4
	6	0.0	12	13.5

Symbol	Pin No.	Vdc
PL	1	0.0
	2	0.0
	3	0.0
	4	0.0
	5	0.0

Symbol	Pin No.	Vdc
PR	1	0.0
	2	0.0
	3	0.0
	4	0.0
QC01	B	0.4
	C	0.0
	E	0.0
QC02	B	0.4
	C	0.0
	E	0.0
QC03	B	0.0
	C	4.4
	E	0.0
QC04	B	0.0
	C	10.1
	E	0.0

Terminal

Symbol	Pin No.	Vdc	Pin No.	Vdc
I401	1	3.9	33	4.8
	2	4.5	34	0.0
	3	3.9	35	4.2
	4	4.5	36	4.4
	5	4.5	37	4.5
	6	0.0	38	3.7
	7	4.9	39	4.5
	8	3.9	40	4.4
	9	4.4	41	8.9
	10	3.9	42	4.5
	11	4.4	43	4.3
	12	4.4	44	4.5
	13	0.0	45	3.7
	14	4.9	46	4.4
	15	4.6	47	0.0
	16	4.4	48	4.8
	17	3.9	49	4.8
	18	4.4	50	4.5
	19	4.4	51	4.4
	20	0.0	52	4.5
	21	4.9	53	4.4
	22	3.9	54	4.5
	23	4.4	55	3.7
	24	3.9	56	4.1
	25	4.4	57	0.0
	26	4.4	58	4.4
	27	0.0	59	4.4
	28	4.4	60	4.3
	29	3.9	61	4.4
	30	4.4	62	4.4
	31	0.0	63	4.3
	32	4.8	64	4.4
I402	1	6.4		
	2	0.0		
	3	4.0		
	4	5.0		
	5	9.0		
I403	1	4.0	25	2.3
	2	4.0	26	0.0
	3	4.0	27	0.0
	4	2.1	28	0.0
	5	0.0	29	1.3
	6	1.8	30	0.0
	7	6.3	31	1.2
	8	2.3	32	0.0
	9	0.0	33	4.8
	10	7.5	34	4.8
	11	0.0	35	0.0
	12	6.0	36	0.0
	13	1.2	37	2.4
	14	0.0	38	4.9
	15	1.1	39	4.9
	16	0.0	40	2.7
	17	0.0	41	4.9
	18	9.0	42	4.9
	19	9.0	43	0.0
	20	3.3	44	3.1
	21	1.0	45	0.0
	22	0.7	46	3.7
	23	9.0	47	2.3
	24	0.0	48	2.5

Symbol	Pin No.	Vdc	Pin No.	Vdc
I404	1	3.6	13	0.0
	2	0.0	14	0.0
	3	3.6	15	2.1
	4	0.0	16	4.1
	5	3.6	17	0.0
	6	0.0	18	2.5
	7	0.0	19	2.1
	8	0.0	20	4.9
	9	0.0	21	2.1
	10	0.0	22	0.0
	11	0.0	23	0.0
	12	0.0	24	0.0
I405	1	0.2	9	4.2
	2	0.0	10	4.2
	3	0.7	11	4.2
	4	0.0	12	0.1
	5	4.9	13	0.1
	6	0.0	14	0.0
	7	0.0	15	0.0
	8	0.0	16	4.9
I406	1	2.5	9	2.0
	2	4.9	10	0.0
	3	1.7	11	2.5
	4	0.0	12	4.9
	5	1.7	13	4.9
	6	0.6	14	2.5
	7	4.9	15	0.0
	8	2.0	16	2.5
I407	1	2.5	9	2.0
	2	4.9	10	0.0
	3	1.7	11	2.5
	4	0.0	12	4.9
	5	1.7	13	4.9
	6	0.6	14	2.5
	7	4.9	15	0.0
	8	2.0	16	2.5
I408	1	2.6		
	2	4.9		
	3	0.0		
	4	4.9		
	5	4.9		
I409	1	0.1		
	2	5.0		
	3	0.0		
	4	0.0		
	5	5.0		
PFT	1	5.0		
	2	0.0		
	3	0.0		
	4	0.0		
	5	0.0		
	6	0.0		
	7	1.9		
	8	1.9		
	9	0.0		
	10	0.0		
	11	9.2		

Symbol	Pin No.	Vdc	Pin No.	Vdc
PST1	1	4.8	11	4.5
	2	4.8	12	4.5
	3	0.0	13	0.0
	4	4.5	14	6.3
	5	4.9	15	0.0
	6	4.9	16	4.6
	7	0.0	17	4.6
	8	1.8	18	0.0
	9	1.8	19	1.1
	10	0.0	20	0.0
PST2	1	0.0	11	2.4
	2	0.0	12	0.0
	3	3.7	13	2.4
	4	0.0	14	0.0
	5	3.6	15	4.8
	6	0.0	16	0.0
	7	3.8	17	4.8
	8	0.0	18	0.0
	9	1.3	19	4.8
	10	0.0	20	0.0
PST3	1	0.2	11	0.0
	2	0.0	12	0.0
	3	0.0	13	9.2
	4	0.0	14	9.2
	5	0.0	15	0.0
	6	0.0	16	0.0
	7	0.0	17	5.0
	8	0.0	18	5.0
	9	9.1	19	0.0
	10	9.1	20	0.0

DC VOLTAGE TABLES

Terminal Cont.

Q401	B	4.5
	C	9.0
	E	3.8
Q402	B	4.4
	C	9.0
	E	3.7
Q403	B	4.4
	C	9.0
	E	3.8
Q404	B	4.4
	C	0.0
	E	5.1
Q405	B	4.2
	C	0.0
	E	4.8
Q406	B	5.9
	C	9.1
	E	5.2
Q407	B	6.9
	C	9.1
	E	6.3
Q408	B	7.1
	C	9.1
	E	6.5
Q409	B	4.4
	C	9.1
	E	3.8
Q410	B	3.7
	C	9.1
	E	3.1
Q411	B	4.4
	C	9.1
	E	3.8
Q412	B	2.2
	C	0.0
	E	2.8
Q413	B	2.4
	C	0.0
	E	3.0
Q414	B	2.5
	C	0.0
	E	3.1

Q415	B	1.4
	C	5.0
	E	0.7
Q416	B	3.7
	C	8.5
	E	3.1
Q417	B	8.5
	C	5.6
	E	9.1
Q418	B	5.6
	C	9.1
	E	4.9
Q419	B	3.7
	C	8.5
	E	3.1
Q420	B	8.5
	C	5.5
	E	9.1
Q421	B	5.5
	C	9.1
	E	4.9
Q422	B	3.7
	C	8.5
	E	3.1
Q423	B	8.5
	C	5.6
	E	9.1
Q424	B	5.6
	C	9.1
	E	4.9
Q425	B	0.7
	C	0.0
	E	1.4
Q426	B	1.8
	C	0.0
	E	2.4
Q427	B	1.8
	C	0.0
	E	2.4
Q428	G	0.0
	C	5.0
	E	0.0

Q431	B	2.5
	C	4.9
	E	1.9
Q433	B	2.5
	C	4.9
	E	1.9
Q434	B	3.1
	C	4.9
	E	2.5
Q435	B	3.1
	C	4.9
	E	2.5
Q436	B	3.1
	C	4.9
	E	2.5
Q437	B	3.1
	C	4.9
	E	2.5
Q438	B	3.1
	C	4.9
	E	2.5
Q439	B	3.1
	C	4.9
	E	2.5
Q440	B	1.8
	C	0.0
	E	2.4
Q441	B	1.8
	C	0.0
	E	2.4
Q442	B	0.7
	C	0.0
	E	1.4
Q443	B	0.7
	C	0.0
	E	0.0
Q444	B	4.2
	C	9.1
	E	4.9
Q445	B	4.2
	C	9.1
	E	4.9
Q446	B	4.2
	C	9.1
	E	4.9

2H Video

Symbol	Pin No.	Vdc	Pin No.	Vdc
IX01	1	1.5	29	4.9
	2	4.3	30	4.9
	3	4.1	31	0.0
	4	3.0	32	0.0
	5	2.3	33	3.5
	6	2.2	34	3.5
	7	0.1	35	3.5
	8	4.0	36	0.2
	9	4.0	37	3.5
	10	4.0	38	3.5
	11	1.6	39	3.5
	12	4.9	40	9.1
	13	2.5	41	2.9
	14	0.0	42	2.8
	15	2.6	43	2.7
	16	0.0	44	0.0
	17	0.0	45	5.7
	18	0.0	46	9.1
	19	0.0	47	0.0
	20	6.7	48	3.4
	21	0.0	49	5.5
	22	9.1	50	5.3
	23	9.1	51	5.0
	24	1.6	52	5.1
	25	1.2	53	6.5
	26	0.0	54	7.0
	27	4.8	55	5.0
	28	0.0	56	0.1

Symbol	Pin No.	Vdc	Pin No.	Vdc
IX02	1	2.5	9	2.1
	2	4.6	10	0.0
	3	1.8	11	2.5
	4	0.0	12	4.6
	5	1.8	13	5.0
	6	0.7	14	2.5
	7	0.0	15	0.0
	8	2.1	16	2.5
PSZ1	1	9.2	11	0.0
	2	9.2	12	0.0
	3	0.0	13	0.0
	4	5.0	14	0.0
	5	5.0	15	0.0
	6	0.0	16	0.0
	7	0.0	17	0.0
	8	0.0	18	0.0
	9	0.0	19	0.7
	10	0.0	20	0.0
PSZ2	1	4.8	11	0.0
	2	4.8	12	0.5
	3	0.0	13	0.3
	4	4.6	14	0.0
	5	10.5	15	4.2
	6	0.0	16	0.0
	7	0.0	17	4.2
	8	1.1	18	0.0
	9	0.0	19	4.2
	10	0.1	20	0.0

Symbol	Pin No.	Vdc
PZC	1	3.3
	2	0.0
	3	3.4
	4	0.0
	5	3.5
	6	0.0
	7	0.0
	8	9.2
PZV	1	2.7
	2	0.0
	3	0.0
	4	0.0

DC VOLTAGE TABLES

2H Video Cont.

QX01	B	0.0
	C	0.0
	E	0.6
QX02	B	0.0
	C	0.7
	E	0.0
QX03	B	0.0
	C	0.0
	E	0.6
QX07	B	0.0
	C	0.0
	E	0.6
QX08	B	0.0
	C	0.0
	E	0.6
QX09	B	0.0
	C	0.0
	E	0.6
QX13	B	7.3
	C	9.2
	E	6.7
QX15	B	1.1
	C	9.1
	E	1.1
QX16	B	9.1
	C	0.3
	E	9.1
QX17	B	1.1
	C	0.0
	E	1.6
QX18	B	0.6
	C	0.0
	E	1.2
QX21	B	4.2
	C	9.1
	E	3.6
QX22	B	5.9
	C	9.1
	E	4.6
QX23	B	5.2
	C	9.1
	E	4.6
QX24	B	7.7
	C	9.1
	E	7.1

QX25	B	1.4
	C	4.9
	E	0.8
QX26	B	8.5
	C	4.6
	E	9.1
QX27	B	8.5
	C	4.9
	E	9.1
QX31	B	2.7
	C	0.0
	E	3.4
QX32	B	6.9
	C	3.4
	E	7.6
QX36	B	2.8
	C	0.0
	E	3.4
QX37	B	6.9
	C	3.4
	E	7.6
QX41	B	2.9
	C	0.0
	E	3.5
QX42	B	6.9
	C	3.5
	E	7.6
QX46	B	3.4
	C	9.2
	E	2.7
QX52	B	4.9
	C	9.1
	E	4.3
QX53	B	4.6
	C	9.1
	E	4.0
QX54	B	4.6
	C	8.5
	E	4.0
QX55	B	4.9
	C	8.5
	E	4.3

Stand-By Power

Symbol	Pin No.	Vdc
I901	1	0.1
	2	0.1
	3	116.5
	4	0.1
	5	3.6
I902	1	0.1
	2	0.1
	3	0.1
	4	3.6
I903	1	0.1
	2	0.1
	3	0.1
	4	0.1
I904	1	3.4
	2	8.3
	3	5.3
	4	0.1
I905	1	0.1
	2	10.5
	3	0.1
	4	0.1
	5	0.1
I906	1	0.1
	2	0.1
	3	0.1
	4	0.1
	5	0.1

Symbol	Pin No.	Vdc
I907	1	0.1
	2	9.6
	3	0.1
	4	0.1
	5	0.1
I908	1	0.1
	2	11.8
	3	0.1
	4	0.1
	5	0.1
PQD1	1	58.8
	2	58.7
PQD2	1	0.3
	2	0.6
	3	1.6
	4	1.9
	5	0.6
	6	3.2
	7	0.1
PQS1	1	0.1
	2	0.1
	3	0.1
	4	0.1
	5	0.1
	6	0.1
	7	0.1
	8	0.1
	9	0.1
	10	4.0

Symbol	Pin No.	Vdc
PQS2	1	0.1
	2	0.1
	3	0.1
	4	0.6
	5	0.1
	6	0.1
	7	0.9
	8	0.1
	9	0.1
	10	0.4
	11	0.1
PQU1	1	0.1
	2	2.0
	3	0.1
	4	0.1
	5	5.0
	6	0.1
PQU2	1	0.1
	2	2.0
	3	0.1
	4	1.6
	5	0.6
	6	0.1
	7	0.1
	8	0.1

DC VOLTAGE TABLES

Stand-By Power Cont.

Q901	K	0.0
	C	13.0
	G	0.0
Q902	B	6.5
	C	11.3
	E	5.9
Q903	B	0.1
	C	4.7
	E	0.0
Q904	B	0.6
	C	1.5
	E	0.0
Q905	K	0.2
	C	11.7
	G	0.2
Q906	B	0.2
	C	-12.0
	E	0.7

Q907	B	0.1
	C	0.2
	E	0.7
Q908	B	4.9
	C	4.9
	E	4.4
Q909	B	0.0
	C	-4.1
	E	0.1
Q910	B	2.8
	C	13.8
	E	2.1
Q911	B	0.9
	C	0.7
	E	0.0
Q912	B	0.0
	C	-4.5
	E	0.1

Power Deflection

Symbol	Pin No.	Vdc
IP01	1	2.1
	2	0.1
	3	165.3
	4	18.2
	5	0.0
IP02	1	7.8
	2	6.3
	3	0.0
	4	2.1
IP03	1	120.4
	2	10.7
	3	0.0
IP04	1	11.9
	2	17.0
	3	3.0

Symbol	Pin No.	Vdc
PDC1	1	0.1
	2	2.0
	3	0.1
	4	0.1
	5	5.0
PQD1	1	58.3
	2	58.4
PQD2	1	0.3
	2	0.6
	3	1.6
	4	1.9
	5	0.6
	6	3.2
	7	0.1

QP01	K	0.0
	G	0.2
	C	10.3
QP02	B	119.9
	C	1.2
	E	120.4
QP03	B	6.2
	C	0.0
	E	6.2
QP04	B	10.4
	C	11.1
	E	11.1

Deflection

Symbol	Pin No.	Vdc
I601	1	15.4
	2	27.0
	3	4.7
	4	6.7
	5	4.5
	6	17.3
	7	3.9
	8	4.3
	9	4.5
	10	27.3
	11	1.2
I651	1	1.0
	2	1.3
	3	0.9
	4	0.0
	5	3.0
	6	1.0
	7	0.2
	8	12.1

Symbol	Pin No.	Vdc	Pin No.	Vdc
I701	1	0.1	13	0.0
	2	0.1	14	0.0
	3	3.0	15	1.2
	4	3.2	16	4.8
	5	0.0	17	4.8
	6	6.7	18	6.0
	7	5.4	19	2.2
	8	9.4	20	0.5
	9	2.6	21	2.2
	10	1.0	22	5.0
	11	1.1	23	0.3
	12	1.2	24	0.7
IH02	1	6.5	9	7.3
	2	11.9	10	7.3
	3	0.8	11	7.3
	4	2.5	12	7.3
	5	1.6	13	2.8
	6	0.0	14	1.9
	7	0.0	15	5.0
	8	0.0	16	0.0

Symbol	Pin No.	Vdc
PDF	1	216.8
	4	0.0
PMB	1	-14.7
	2	-14.7
	3	89.2
	4	88.5
PMG	1	-14.7
	2	-14.7
	3	89.2
	4	88.5
PMR	1	-14.7
	2	-14.7
	3	89.2
	4	88.5

Symbol	Pin No.	Vdc
PSD2	1	4.8
	2	4.8
	3	4.2
	4	0.0
	5	9.2
	6	0.0
	7	0.0
PSD3	1	10.3
	2	0.0
	3	0.0
	4	3.0
	5	0.0
	6	1.5
	7	0.0
	8	3.2
	9	0.0
	10	0.6
	11	0.0
	12	0.0
	13	0.0

Q601	B	0.3
	C	2.5
	E	0.0
Q608	B	0.0
	C	5.1
	E	0.0
Q609	B	27.3
	C	0.0
	E	27.6
Q612	B	0.3
	C	8.8
	E	0.0
Q613	B	0.0
	C	1.6
	E	0.6
Q652	B	10.7
	C	6.8
	E	11.4
Q653	B	6.1
	C	0.9
	E	6.6
Q654	B	5.3
	C	2.4
	E	5.9
Q655	B	0.9
	C	12.2
	E	1.2
Q656	B	0.9
	C	0.0
	E	1.2

Q657	B	0.1
	C	85.8
	E	0.0
Q701	B	0.0
	C	6.7
	E	0.0
Q702	B	6.7
	C	9.3
	E	6.0
Q703	B	0.7
	C	0.0
	E	0.0
Q704	B	0.0
	C	16.6
	E	0.0
Q705	B	0.7
	C	0.0
	E	0.0
Q751	B	0.4
	C	16.6
	E	0.2
Q754	B	9.5
	C	0.7
	E	7.4
Q755	B	1.1
	C	12.1
	E	0.0

DC VOLTAGE TABLES

Deflection Cont.

Q777	B	0.0
	C	118.5
	E	0.0
QF01	B	0.7
	C	0.0
	E	0.0
QF02	B	1.3
	C	0.0
	E	0.7
QF03	B	6.5
	C	0.8
	E	6.9
QF04	B	0.8
	C	11.6
	E	0.3
QF06	B	12.1
	C	354.2
	E	11.9
QF07	B	361.6
	C	1100.0
	E	468.2

QF09	B	11.4
	C	0.0
	E	10.9
QH01	G	3.4
	C	92.5
	E	0.3
QH07	B	12.0
	C	-0.3
	E	10.3
QH08	B	0.6
	C	3.8
	E	0.0
QH09	B	3.8
	C	12.1
	E	3.7
QH10	B	4.2
	C	0.0
	E	4.0
QH80	B	12.0
	C	11.9
	E	12.2

QN01	B	0.0
	C	12.0
	E	0.0
QN02	B	0.9
	C	11.0
	E	0.5
QN03	B	0.1
	C	11.0
	E	0.0
QN04	B	11.0
	C	-0.7
	E	11.1
QN05	B	-0.1
	C	0.5
	E	0.0
QN07	B	0.1
	C	0.1
	E	0.0
QN08	B	0.7
	C	0.0
	E	0.0

Convergence

Symbol	Pin No.	Vdc
IK01	1	8.7
	2	0.0
	3	5.0
IK02	1	4.4
	2	5.1
	3	0.0
IK03	1	8.7
	2	0.0
	3	5.1
IK04	1	0.0
	2	0.0
	3	-25.7
	4	-26.8
	5	32.9
	6	-0.1
	7	-0.1
	8	-22.8
	9	-0.1
	10	27.5
	11	-0.1
	12	-22.8
	13	-0.1
	14	0.1
	15	0.3
	16	0.3
	17	22.8
	18	0.3
IK05	1	0.0
	2	0.0
	3	-26.3
	4	-27.4
	5	32.6
	6	-0.1
	7	-0.1
	8	-22.8
	9	-0.1
	10	27.5
	11	0.0
	12	-22.8
	13	0.0
	14	0.0
	15	0.2
	16	0.2
	17	-22.8
	18	0.2
PCB	1	27.4
	2	27.4
	3	27.5
	4	27.4
PCG	1	27.4
	2	27.4
	3	27.6
	4	27.6

Symbol	Pin No.	Vdc
PCR	1	27.4
	2	27.4
	3	27.7
	4	27.8
PDC	1	8.3
	2	8.4
	3	8.4
	4	0.0
	5	0.0
	6	0.7
	7	0.0
	8	0.1
	9	0.7
PDG	1	3.1
	2	8.4
	3	13.4
	4	13.2
	5	9.0
	6	8.4
	7	8.5
	8	8.4
	9	13.4
	10	8.4
	11	8.4
	12	8.4
	13	8.4
	14	13.4
	15	13.4
PDS1	1	8.4
	2	8.4
	3	8.2
	4	8.7
	5	8.3
	6	9.2
	7	9.2
	8	9.3
	9	8.1
PDS2	1	13.4
	2	8.4
	3	8.4
	4	8.4
	5	8.4
	6	8.2
	7	8.7
	8	8.3
	9	9.2
	10	9.2
	11	9.3
	12	8.1

Symbol	Pin No.	Vdc
PSD1	1	0.0
	2	0.0
	3	0.0
	4	0.0
	5	5.0
	6	0.0
	7	0.0
QK01	B	-8.4
	C	-5.3
	E	-8.9
QK02	B	-0.1
	C	0.0
	E	0.0
QK03	B	0.0
	C	-7.7
	E	0.6
QK06	B	0.0
	C	5.0
	E	0.0
QK07	B	0.0
	C	5.0
	E	0.0
QK08	B	0.0
	C	5.0
	E	0.0
QK71	B	0.0
	C	0.0
	E	0.0

DC VOLTAGE TABLES

Sensor

QL10	B	4.7
	C	0.4
	E	4.9
QL11	B	4.7
	C	1.2
	E	5.1
QL12	B	4.7
	C	1.0
	E	5.1
QL13	B	4.7
	C	1.1
	E	5.1
QL14	B	4.7
	C	0.3
	E	4.8
QL15	B	4.7
	C	3.8
	E	5.2
QL16	B	4.7
	C	0.0
	E	4.9
QL17	B	4.7
	C	1.1
	E	5.1

Symbol	Pin No.	Vdc
PS1	1	0.0
	2	5.1
	3	4.6
	4	0.0
	5	5.1
	6	5.1
	7	0.1
	8	5.1
	9	5.1

Symbol	Pin No.	Vdc
PS2	1	0.0
	2	5.1
	3	5.1
	4	0.0
	5	5.1
	6	4.7
	7	0.0
	8	5.1
	9	5.2
	10	0.0

Symbol	Pin No.	Vdc
PS3	1	0.0
	2	5.1
	3	4.9
	4	0.0
	5	5.1
	6	5.1

Symbol	Pin No.	Vdc
PDS1	1	5.1
	2	0.0
	3	0.0
	4	0.0
	5	1.0
	6	0.3
	7	3.9
	8	0.3
	9	1.1
	10	1.1
	11	1.4
	12	0.3

CPT

Q801	B	3.4
	C	8.4
	E	2.9
Q802	B	8.6
	C	9.2
	E	8.4
Q803	B	9.1
	C	172.0
	E	8.6
Q804	B	172.0
	C	1.0
	E	172.7
Q805	B	173.5
	C	222.0
	E	173.1
Q812	B	1.7
	C	1.0
	E	1.0
Q851	B	3.4
	C	8.3
	E	2.9
Q852	B	8.6
	C	9.2
	E	8.3
Q853	B	9.1
	C	159.6
	E	8.6
Q854	B	159.6
	C	1.1
	E	160.3
Q855	B	161.3
	C	222.0
	E	160.9
Q858	B	1.9
	C	0.0
	E	2.5

Q859	B	2.5
	C	9.2
	E	1.9
Q862	B	1.8
	C	1.1
	E	1.1
Q8A1	B	3.5
	C	8.3
	E	3.0
Q8A2	B	8.6
	C	9.2
	E	8.3
Q8A3	B	9.1
	C	164.2
	E	8.6
Q8A4	B	164.5
	C	1.1
	E	164.9
Q8A5	B	165.9
	C	222.0
	E	165.3
Q8A6	B	3.1
	C	0.0
	E	2.9
Q8A7	B	3.7
	C	9.2
	E	3.1
Q8C1	B	0.0
	C	9.1
	E	0.0
Q8C2	B	1.7
	C	1.1
	E	1.0

Symbol	Pin No.	Vdc
P801	1	0.0
	2	0.0
	3	0.0
P802	1	175.1
P851	1	0.1
	2	0.0
	3	0.0
P852	1	160.6
P8A1	1	0.0
	2	0.0
	3	0.0
P8A2	1	165.6
PBV	1	0.0
	2	0.0
PCV	1	222.0
	2	0.0
	3	27.9
	4	0.0
	5	6.2
PGV	1	0.0
	2	0.0
PRV	1	0.0
	2	0.0
PZC	1	3.4
	2	0.0
	3	3.4
	4	0.0
	5	3.5
	6	0.0
	7	0.0
	8	9.3

DC VOLTAGE TABLES

VM

QE01	B	3.4
	C	12.7
	E	2.7
QE02	B	12.0
	C	27.9
	E	12.7
QE03	B	13.3
	C	22.3
	E	12.7
QE04	B	22.3
	C	27.9
	E	21.6
QE05	G	2.3
	C	15.2
	E	1.6
QE07	B	15.1
	C	0.0
	E	15.7
QE08	B	15.7
	C	27.9
	E	15.2
QE10	B	15.2
	C	27.9
	E	14.6

QE11	B	13.8
	C	0.0
	E	14.3
QE22	B	211.4
	C	10.7
	E	211.7
QE23	B	209.9
	C	187.6
	E	210.5
QE24	B	186.7
	C	117.0
	E	187.6
QE25	B	24.9
	C	117.1
	E	24.4
QE26	B	1.4
	C	24.4
	E	0.9
QE35	B	12.5
	C	140.2
	E	12.0
QE36	B	12.6
	C	27.9
	E	12.0

Symbol	Pin No.	Vdc
PCV	1	222.0
	2	0.0
	3	27.9
	4	0.0
	5	6.2
PVMB	1	0.0
	2	0.0
	3	117.0
	4	117.0
PVMG	1	0.0
	2	0.0
	3	117.1
	4	117.1
PVMR	1	0.0
	2	0.0
	3	117.1
	4	117.1
PZV	1	2.7
	2	0.0
	3	0.0
	4	0.0

Surround 1 of 2

Symbol	Pin No.	Vdc	Pin No.	Vdc
IS01	1	0.0	9	0.0
	2	0.0	10	0.0
	3	4.1	11	0.0
	4	0.4	12	0.0
	5	0.4	13	0.0
	6	0.4	14	4.8
	7	0.4	15	4.7
	8	0.0	16	5.0
IS02	1	0.0	5	0.0
	2	0.0	6	0.0
	3	0.0	7	0.0
	4	-12.8	8	12.2
IS03	1	4.3	11	4.3
	2	3.6	12	4.3
	3	7.6	13	4.3
	4	4.8	14	4.3
	5	4.8	15	4.3
	6	0.0	16	8.6
	7	0.0	17	4.3
	8	0.0	18	4.3
	9	3.6	19	4.3
	10	4.3	20	4.3
IS04	1	0.0	5	0.0
	2	0.0	6	0.0
	3	0.0	7	0.0
	4	-12.8	8	12.2
IS05	1	4.6	16	4.8
	2	4.6	17	4.8
	3	4.6	18	0.0
	4	4.5	19	4.6
	5	4.6	20	4.6
	6	4.6	21	4.6
	7	4.6	22	4.6
	8	4.6	23	4.6
	9	4.6	24	4.6
	10	4.0	25	4.6
	11	4.6	26	4.6
	12	4.6	27	4.6
	13	9.2	28	4.6
	14	4.6	29	4.6
	15	0.0	30	4.6

Symbol	Pin No.	Vdc	Pin No.	Vdc
IS06	1	0.0	5	0.0
	2	0.0	6	0.0
	3	0.0	7	0.0
	4	-12.8	8	12.2
IS07	1	0.0	5	0.0
	2	0.0	6	0.0
	3	0.0	7	0.0
	4	-12.8	8	12.2
IS08	1	0.0	5	0.0
	2	0.0	6	0.0
	3	0.0	7	0.0
	4	-12.8	8	12.2
IS09	1	0.0	5	0.0
	2	0.0	6	0.0
	3	0.0	7	0.0
	4	-12.8	8	12.2
IS10	1	3.4	16	2.0
	2	3.2	17	1.8
	3	2.9	18	-2.9
	4	2.2	19	-1.7
	5	2.0	20	-1.6
	6	1.8	21	0.2
	7	1.8	22	-0.7
	8	1.7	23	0.2
	9	1.6	24	-0.9
	10	1.7	25	0.2
	11	1.6	26	-1.1
	12	1.4	27	0.1
	13	6.2	28	-1.2
	14	1.9	29	0.1
	15	-3.0	30	2.3
IS11	1	4.3	11	4.3
	2	3.6	12	4.3
	3	7.5	13	4.3
	4	0.0	14	4.3
	5	4.9	15	4.3
	6	0.0	16	8.6
	7	0.0	17	4.3
	8	0.0	18	4.3
	9	3.6	19	4.3
	10	4.3	20	4.3

Symbol	Pin No.	Vdc	Pin No.	Vdc
IS12	1	0.0	5	0.0
	2	0.0	6	0.0
	3	0.0	7	0.0
	4	-12.8	8	12.2
IS13	1	0.0	5	5.1
	2	4.2	6	7.0
	4	5.1	--	--
IS19	1	4.6	6	0.0
	2	1.2	7	0.0
	3	4.6	8	4.6
	4	9.2	9	5.7
	5	4.6	10	4.6
IS20	1	0.0	5	0.0
	2	0.0	6	0.0
	3	0.0	7	0.0
	4	-12.8	8	12.2

Symbol	Pin No.	Vdc
PMU1	1	5.0
	2	0.0
	3	4.9
	4	0.0
	5	4.9
	6	4.9
	7	0.0
	8	0.0
	9	2.4
	10	0.0
	11	0.0
	12	4.8
	13	5.0
PMU2	1	4.6
	2	0.0
	3	4.5
	4	0.0
PMU3	1	0.0
	2	0.0
	3	0.0
	4	0.0
	5	0.0
	6	0.0
	7	0.0
	8	-12.7
	9	12.1

DC VOLTAGE TABLES

Surround 1 of 2 Cont.

QS01	D	0.0
	S	0.0
		-12.4
QS02	B	12.1
	C	-12.7
	E	12.2
QS03	B	0.0
	C	12.1
	E	0.0
QS23	B	0.0
	C	12.1
	E	0.0
QS24	B	12.1
	C	-12.7
	E	12.2
QS25	D	0.0
	S	0.0
		-12.4
QS26	G	0.8
	C	0.0
	E	0.0
QS27	B	0.8
	C	0.0
	E	0.0

Symbol	Pin No.	Vdc	Pin No.	Vdc
PSU1	1	4.8	11	4.5
	2	4.8	12	4.5
	3	4.9	13	0.0
	4	4.8	14	0.0
	5	0.0	15	4.8
	6	0.4	16	0.0
	7	0.0	17	5.0
	8	3.5	18	0.0
	9	3.4	19	9.2
	10	0.0	20	9.2
PSU2	1	0.0	11	4.8
	2	4.9	12	4.9
	3	0.0	13	0.0
	4	0.0	14	0.0
	5	2.4	15	0.0
	6	0.0	16	0.0
	7	4.8	17	0.0
	8	0.0	18	0.0
	9	0.0	19	30.0
	10	0.0	20	30.0
PQU2	1	5.2		
	2	-7.0		
	3	-19.8		
	4	-7.0		
	5	0.0		
	6	0.0		
	7	-7.0		
	8	-7.0		

Surround 2 of 2

Symbol	Pin No.	Vdc	Pin No.	Vdc
IS15	1	1.5	7	13.8
	2	0.0	8	5.0
	3	0.0	9	29.6
	4	0.0	10	0.0
	5	1.5	11	4.3
	6	10.0	12	13.2
IS16	1	1.6	7	13.8
	2	0.0	8	5.0
	3	0.0	9	29.6
	4	0.0	10	0.0
	5	1.6	11	4.3
	6	10.0	12	13.2
IS17	1	0.0	9	0.0
	2	0.1	10	0.0
	3	2.5	11	0.0
	4	0.0	12	5.0
	5	2.5	13	0.0
	6	2.5	14	0.0
	7	0.0	15	0.0
	8	0.0	16	5.0
IS18	1	0.0	8	2.5
	2	5.0	9	2.7
	3	0.0	10	2.7
	4	5.0	11	2.7
	5	0.0	12	5.0
	6	5.0	13	0.0
	7	0.0	14	5.0

Symbol	Pin No.	Vdc
PCL	1	-7.0
	2	-7.0
	3	0.0
PCR	1	-7.0
	2	-7.0
	3	0.0
PMU4	1	-7.0
	2	-2.0
	3	-4.4
PQU1	1	23.0
	2	23.0
	3	-7.0
	4	-7.0
	5	0.0
	6	22.6

QS05	B	0.3
	C	0.0
	E	0.0
QS06	B	0.1
	C	4.4
	E	0.0
QS07	B	0.0
	C	10.0
	E	0.0
QS08	B	0.0
	C	0.0
	E	0.0
QS09	B	0.3
	C	0.0
	E	0.0
QS10	B	0.0
	C	4.3
	E	0.0
QS11	B	0.0
	C	0.0
	E	0.0
QS12	B	4.2
	C	9.2
	E	3.6
QS14	B	4.2
	C	0.0
	E	3.6
QS16	B	0.0
	C	0.0
	E	0.0
QS17	B	0.0
	C	0.0
	E	0.0
QS18	B	0.0
	C	9.2
	E	3.6
QS20	B	0.0
	C	0.0
	E	0.0
QS21	B	0.0
	C	5.1
	E	0.0
QS22	B	0.7
	C	0.0
	E	0.0

Control

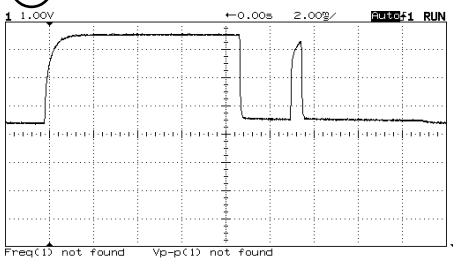
Symbol	Pin No.	Vdc
PFC	1	0.5
	2	0.5
	3	0.0
	4	0.0
PFS	1	1.5
	2	0.0
	3	0.8
	4	0.6
	5	0.0
	6	0.0
	7	0.5
	8	0.5
	9	0.8
PFT	1	0.0
	2	0.0
	3	0.0
	4	0.0
	5	0.0
	6	0.0
	7	0.0
	8	0.0
	9	0.0
	10	0.0
	11	0.0

QM01	B	0.1
	C	0.0
	E	0.0
QM02	–	–
	C	1.2
	E	1.5
QM03	B	0.0
	C	0.0
	E	0.0
QM04	B	0.0
	C	0.0
	E	0.0
QM05	B	0.0
	C	0.8
	E	0.0

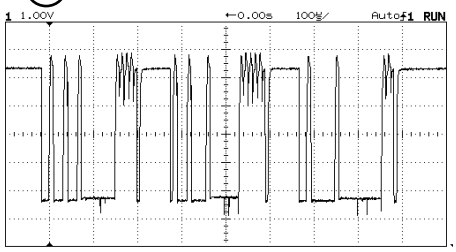
WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram.

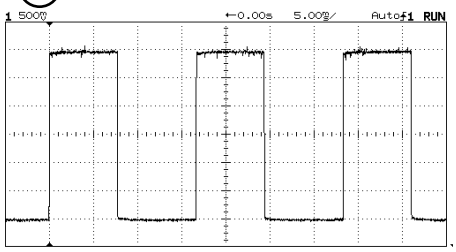
(1) I001 Pin 1



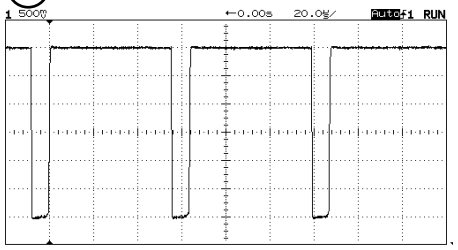
(2) I001 Pin 2



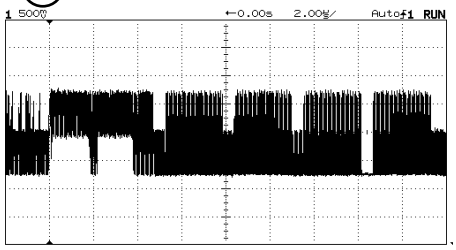
(3) I001 Pin 23



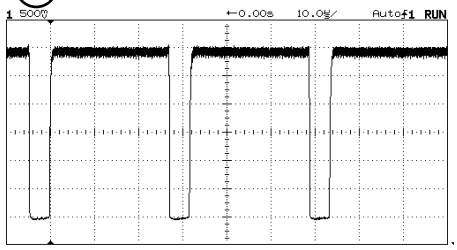
(4) I001 Pin 24



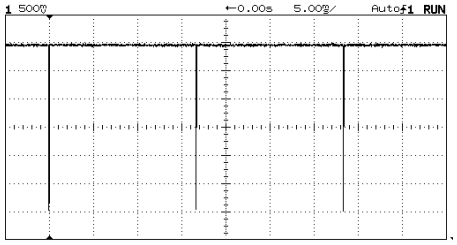
(5) I001 Pin 38



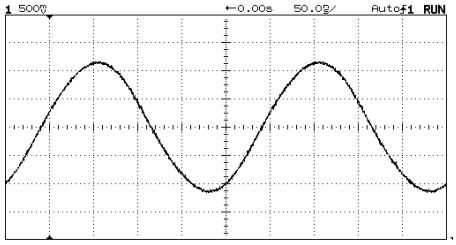
(6) I001 Pin 49



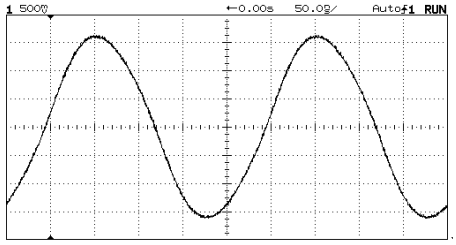
(7) I001 Pin 55



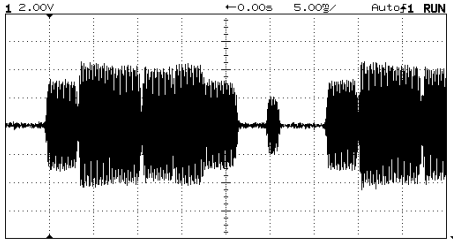
(8) I001 Pin 62



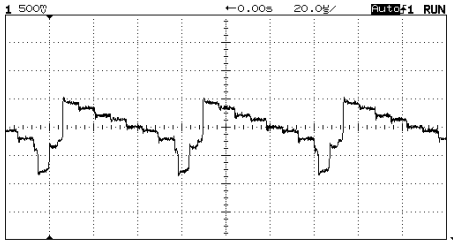
(9) I001 Pin 63



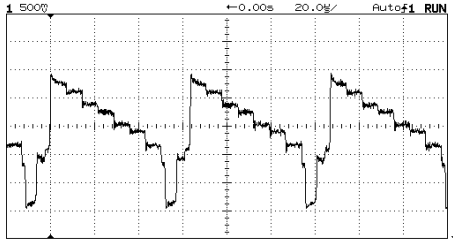
(10) I403 Pin 6



(11) I403 Pin 8



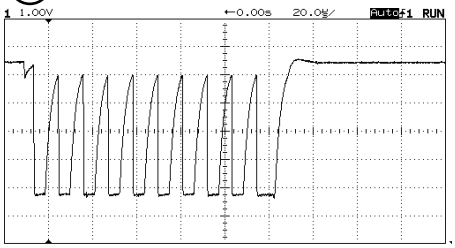
(12) I403 Pin 40



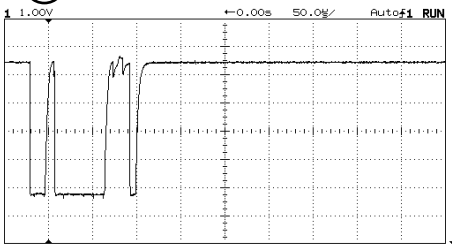
WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram.

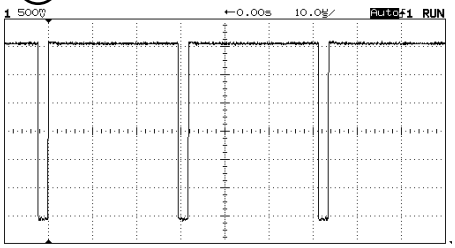
(13) PSD2 Pin 1



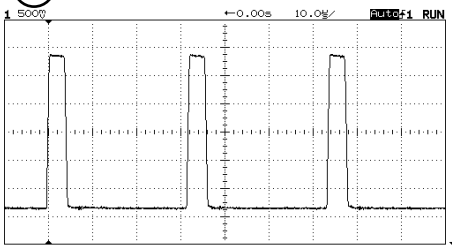
(14) PSD2 Pin 2



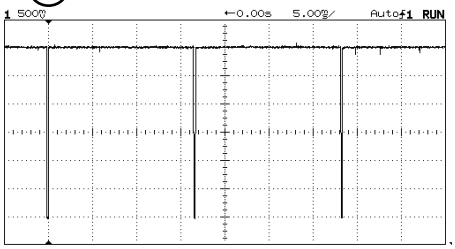
(15) PSD3 Pin 4



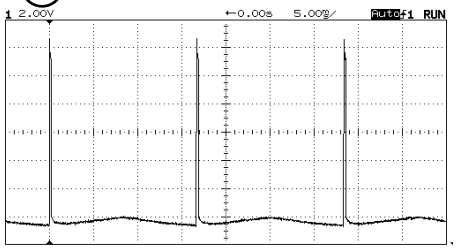
(16) PSD3 Pin 6



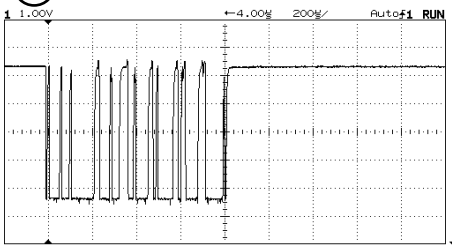
(17) PSD3 Pin 8



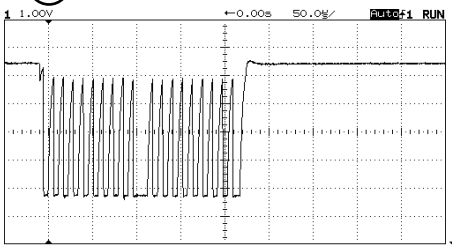
(18) PSD3 Pin 10



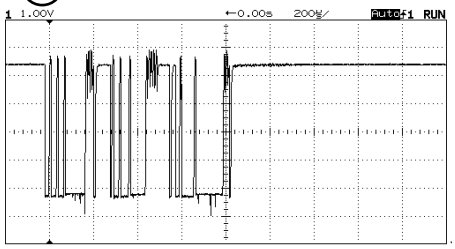
(19) PST1 Pin 1



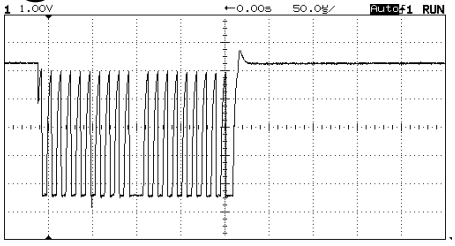
(20) PST1 Pin 2



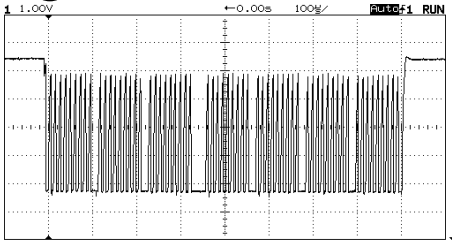
(21) PST1 Pin 5



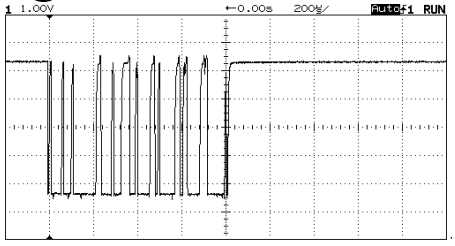
(22) PST1 Pin 6



(23) PSU1 Pin 1



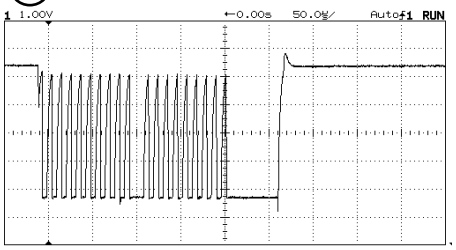
(24) PSU1 Pin 2



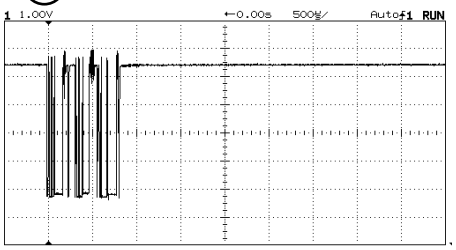
WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram.

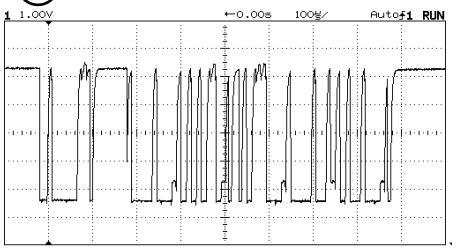
(25) PSU1 Pin 3



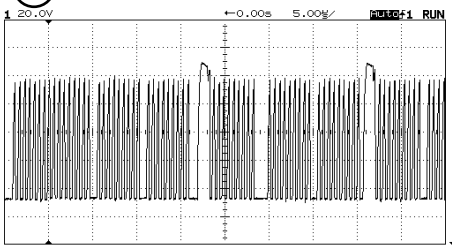
(26) PSU1 Pin 4



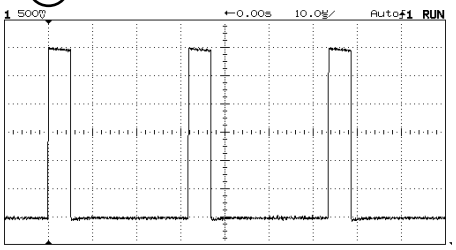
(27) PSZ2 Pin 1



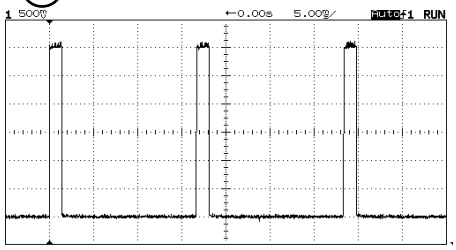
(28) PSZ2 Pin 2



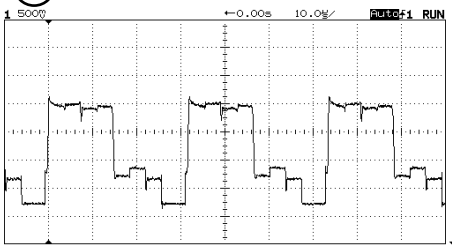
(29) PSZ2 Pin 12



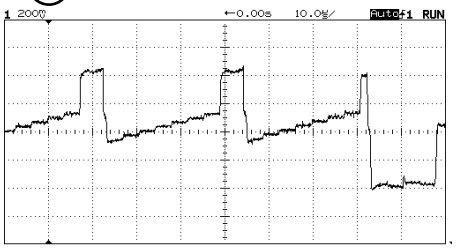
(30) PSZ2 Pin 13



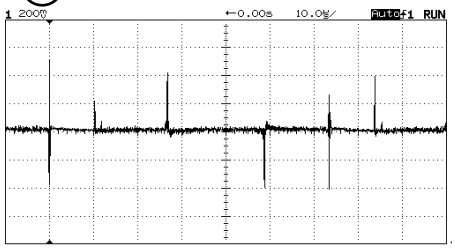
(31) Q851 E



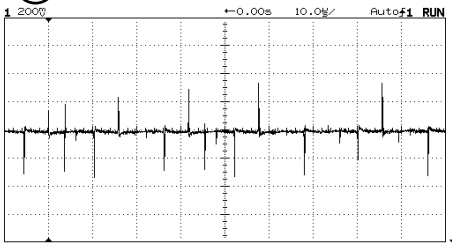
(32) Q852 E



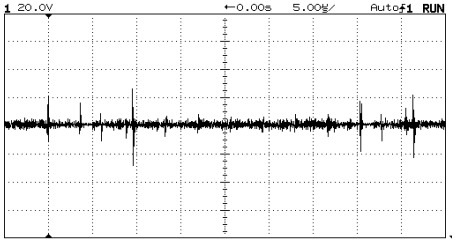
(33) QE04 E



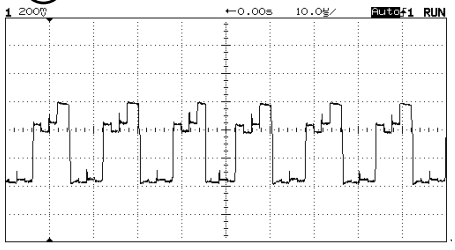
(34) QE07 E



(35) QE24 C



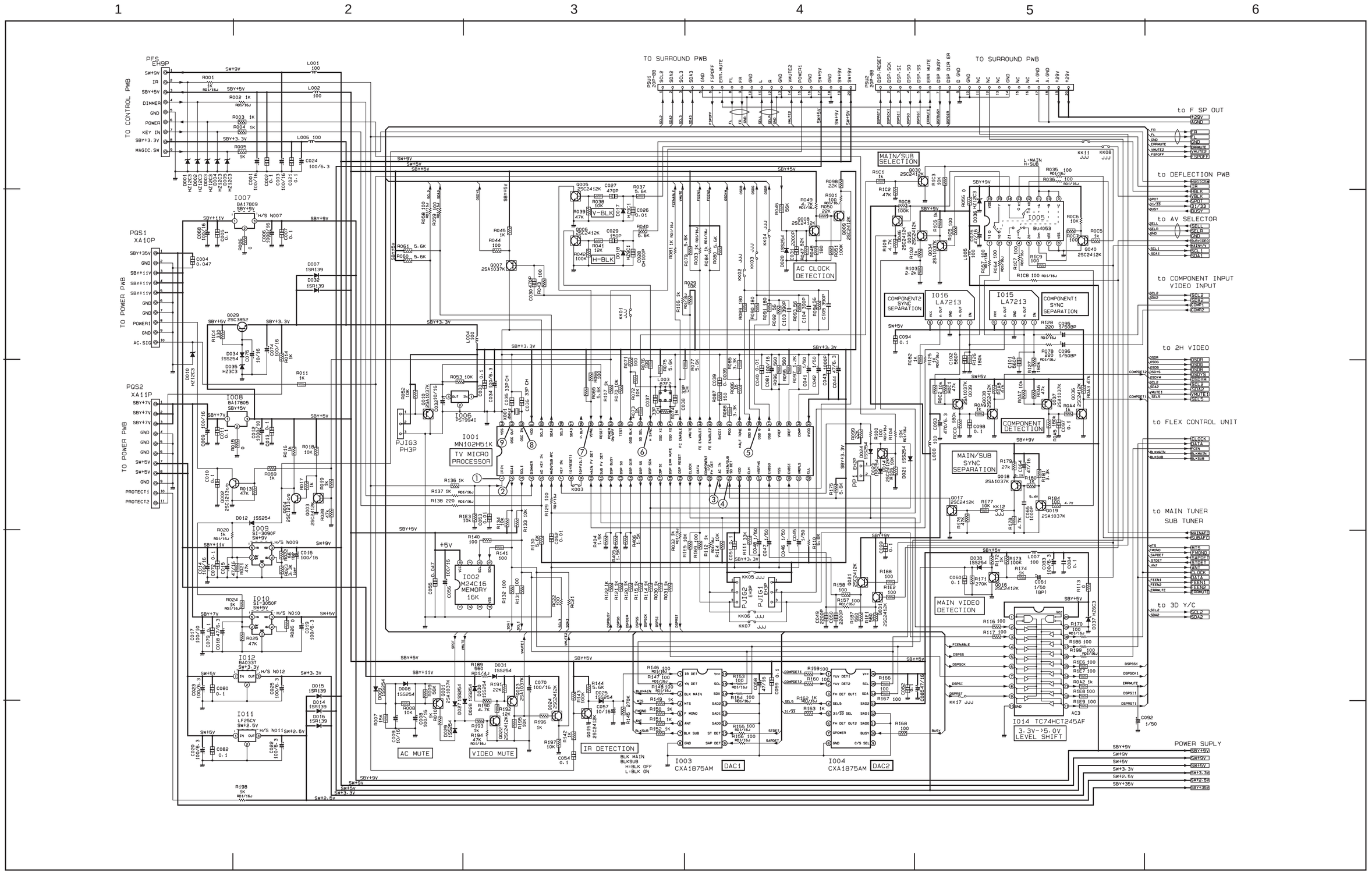
(36) R863 - R864



PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

BASIC CIRCUIT DIAGRAM

SIGNAL 1/3



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

SIGNAL 1/3

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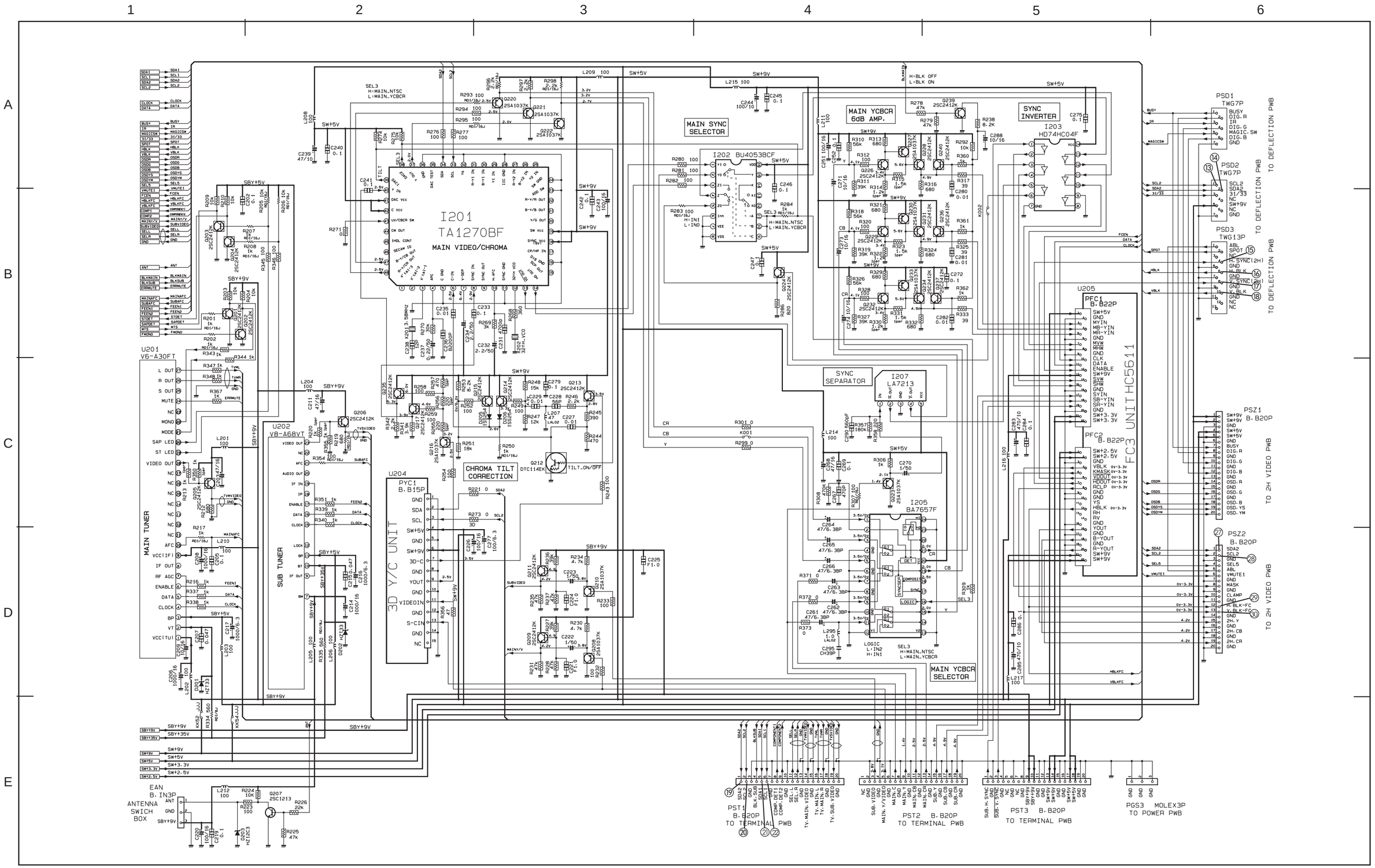
BASIC CIRCUIT DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

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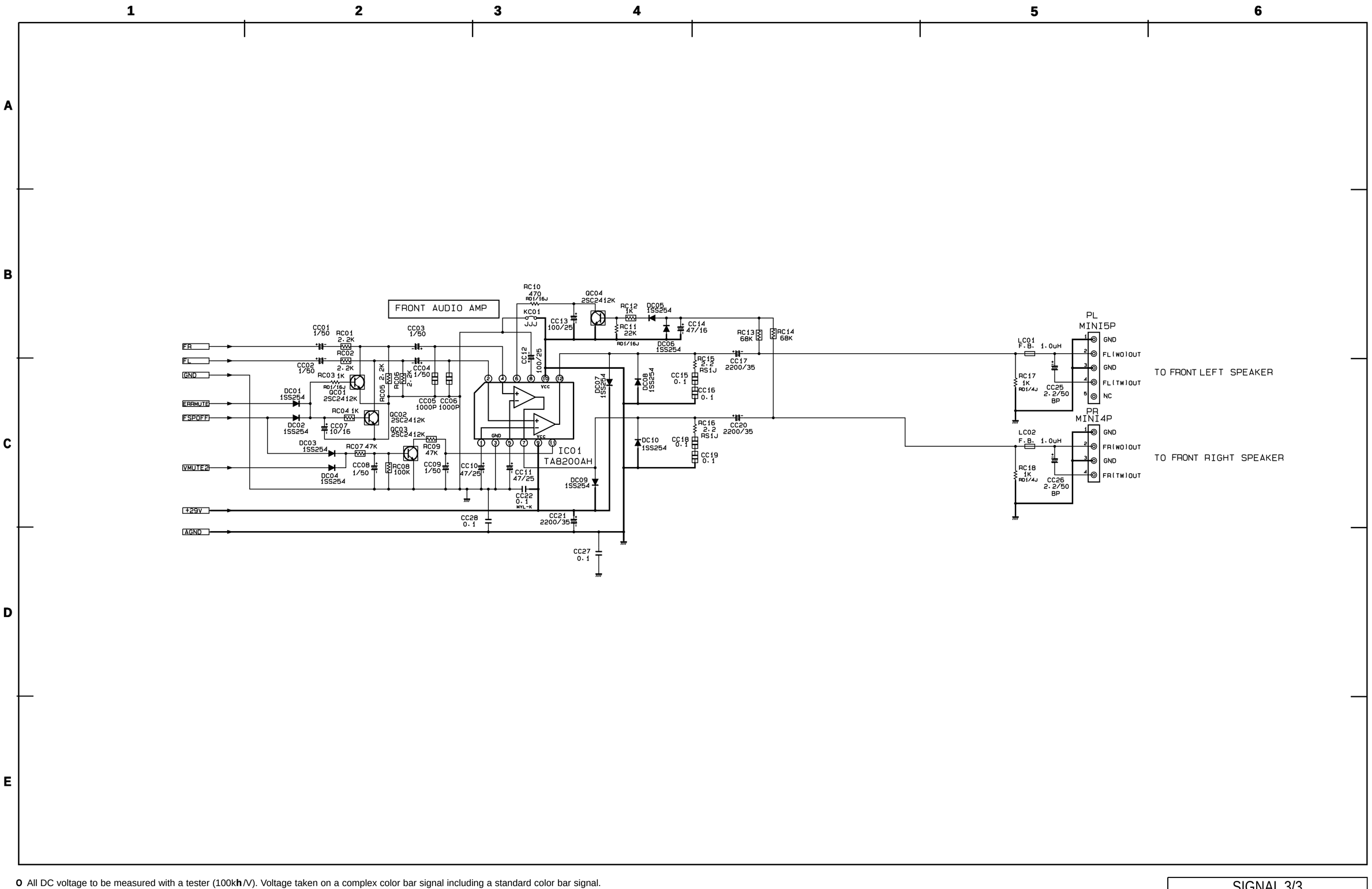
BASIC CIRCUIT DIAGRAM



- All DC voltage to be measured with a tester (100k**h**/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

SIGNAL 3/3

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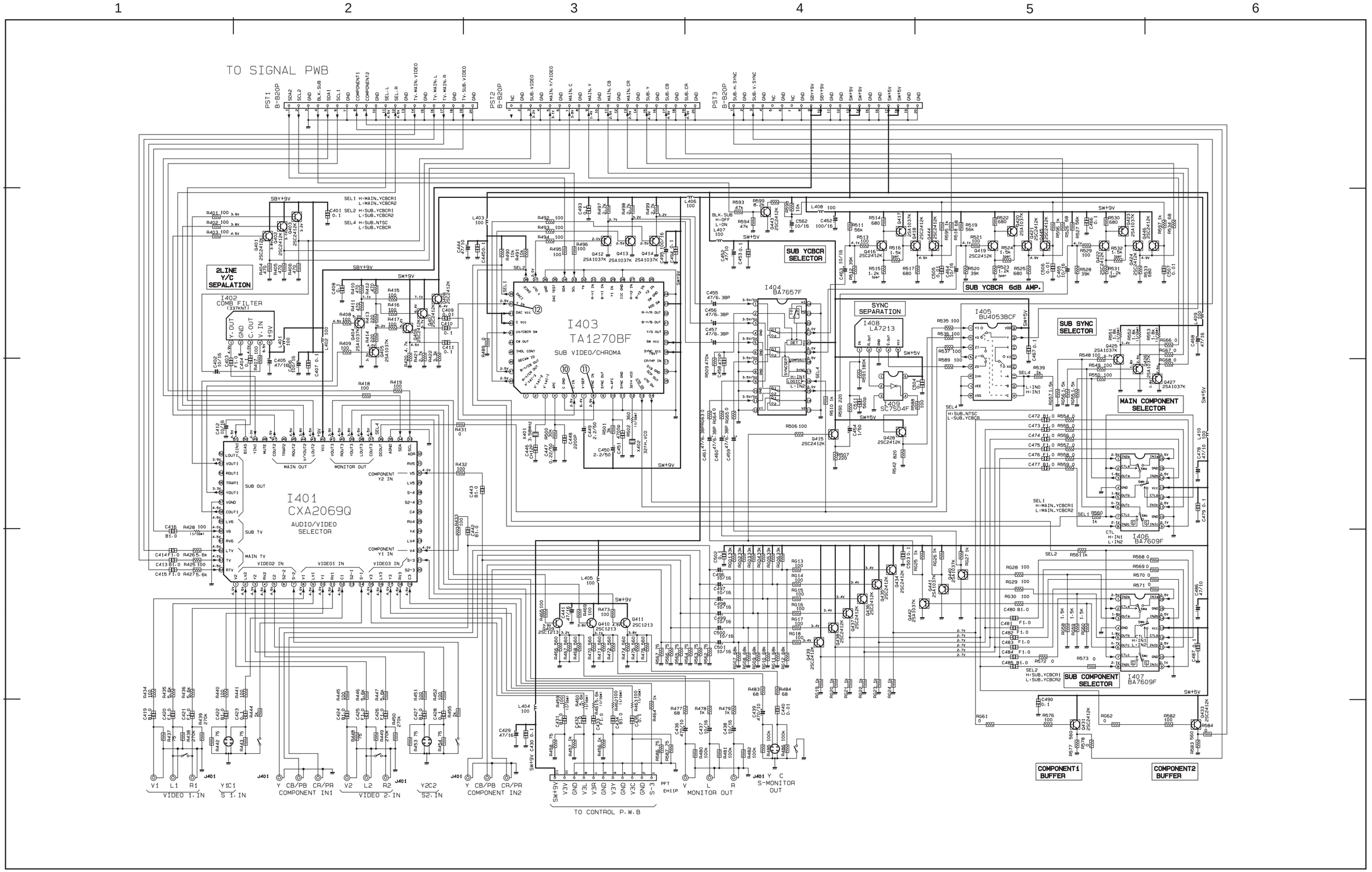
BASIC CIRCUIT DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

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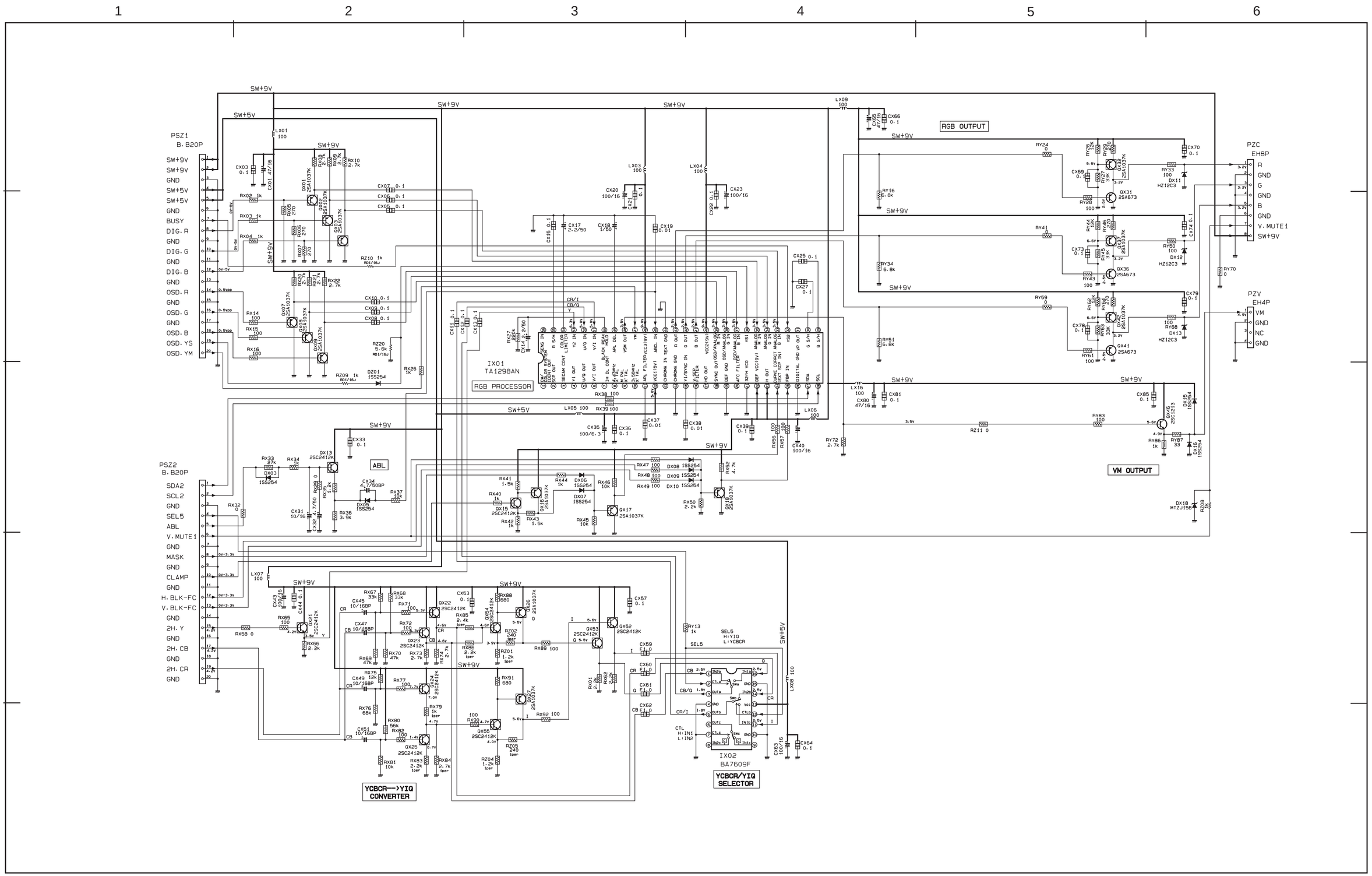
BASIC CIRCUIT DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
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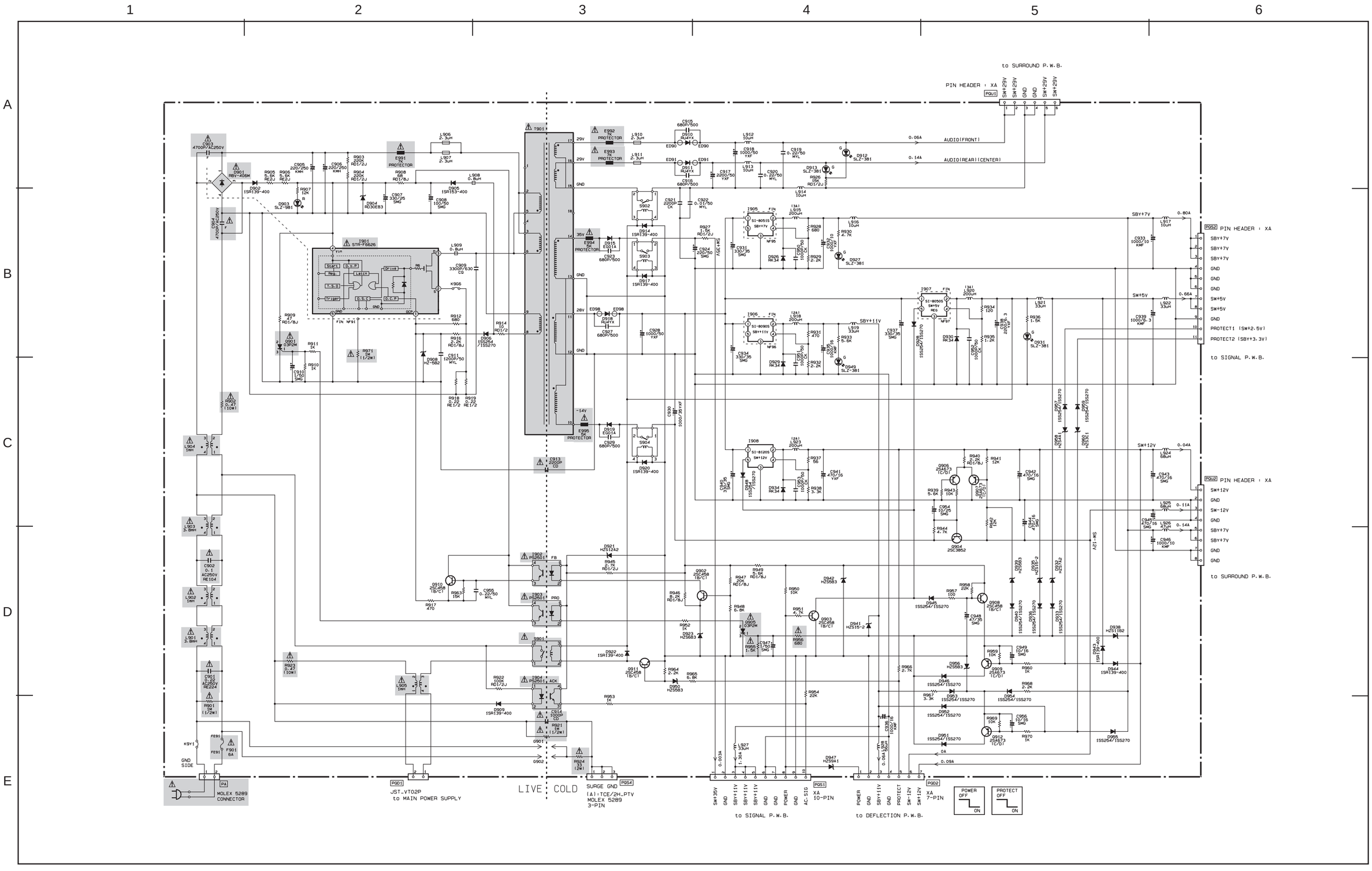
BASIC CIRCUIT DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

POWER SUPPLY 1/2

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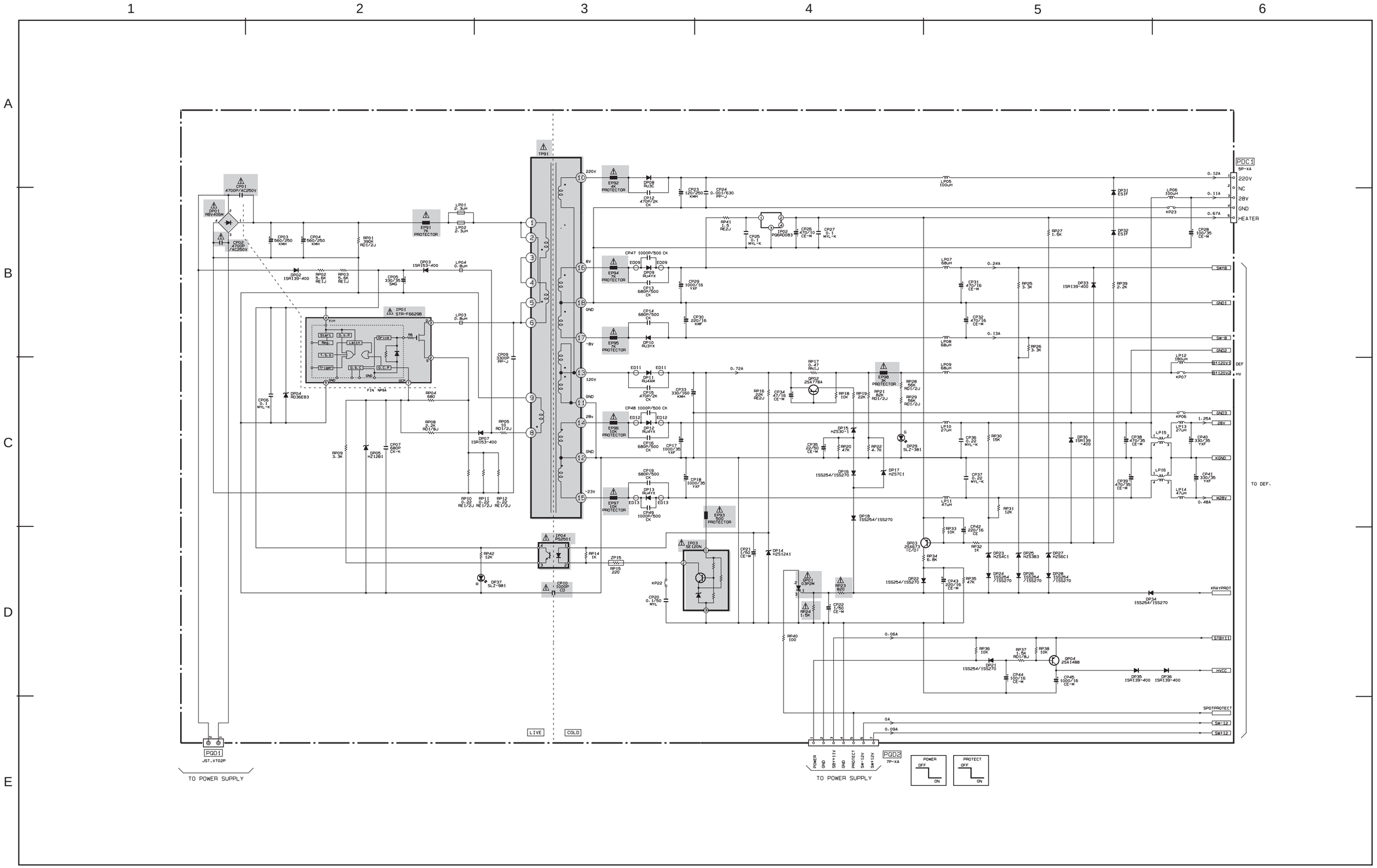
BASIC CIRCUIT DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

POWER SUPPLY 2/2

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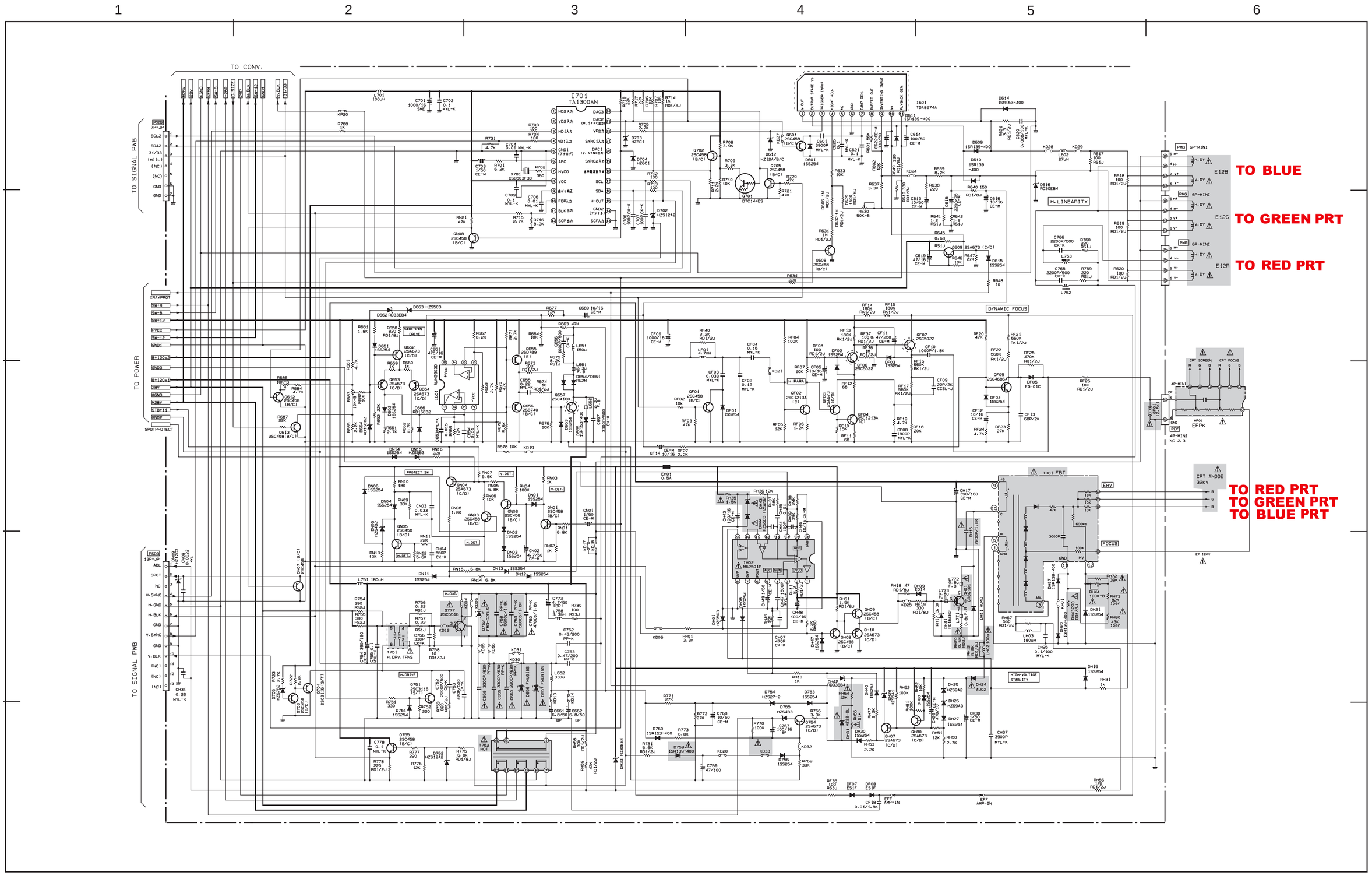
BASIC CIRCUIT DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

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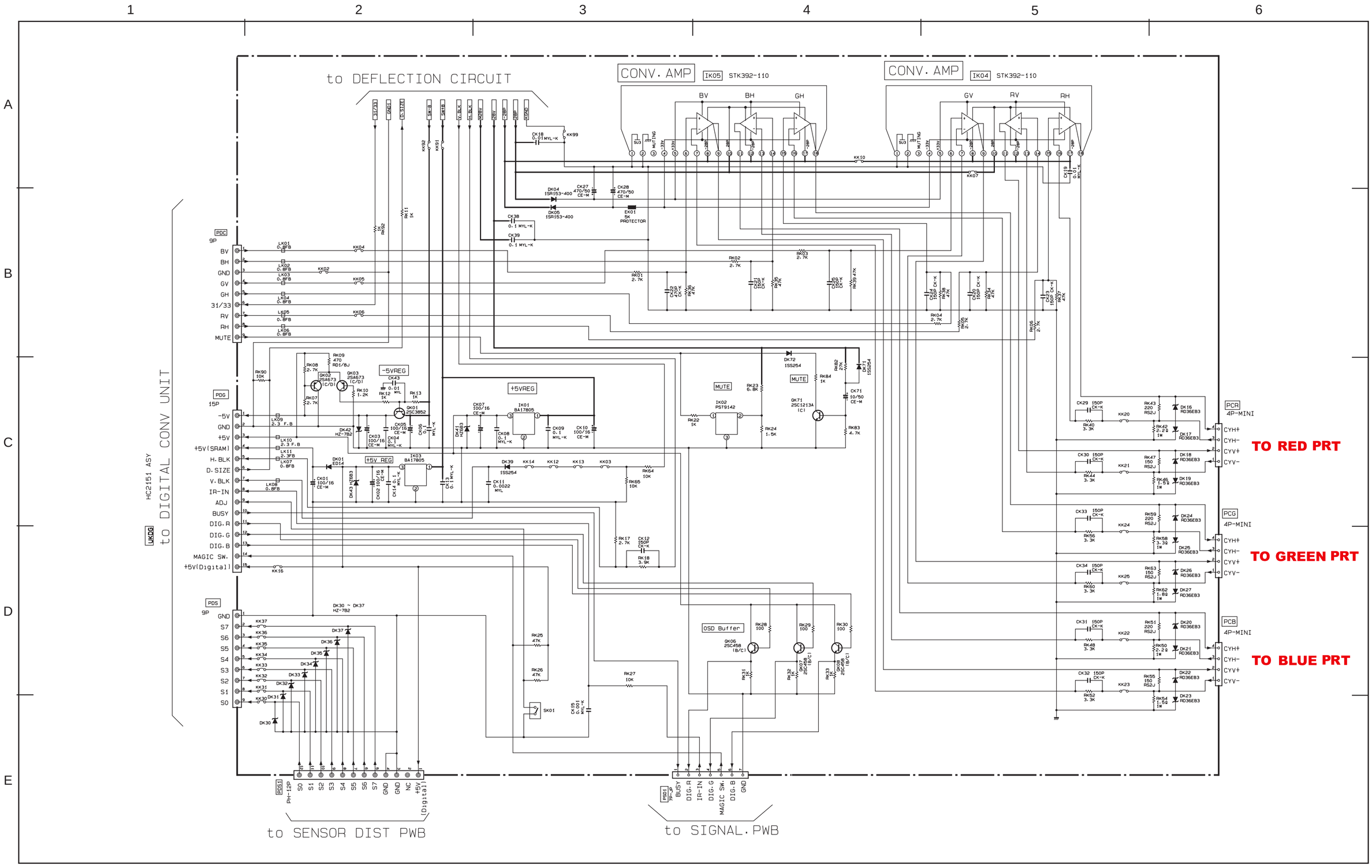
BASIC CIRCUIT DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
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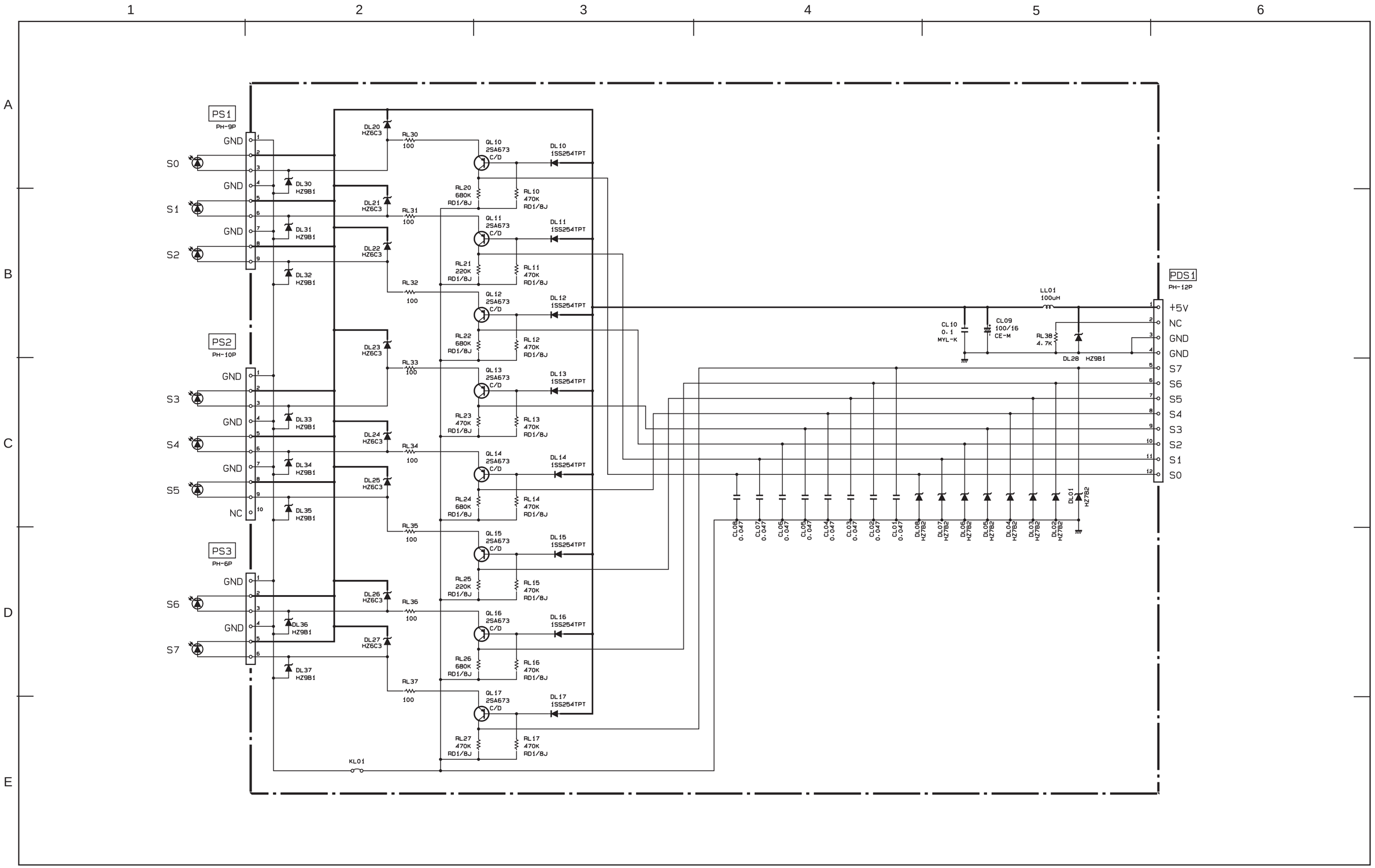

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

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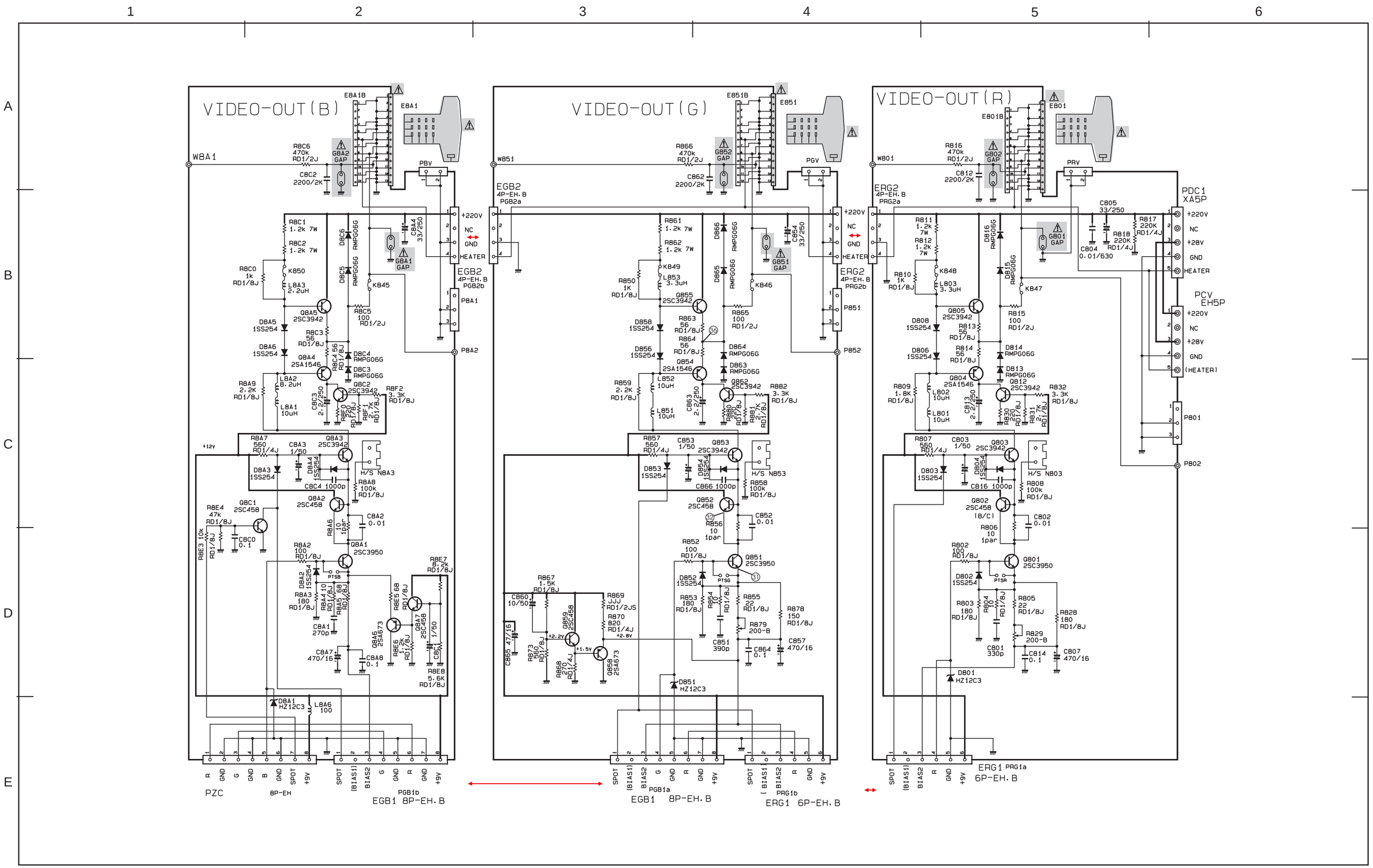
BASIC CIRCUIT DIAGRAM

CPT



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

CPT

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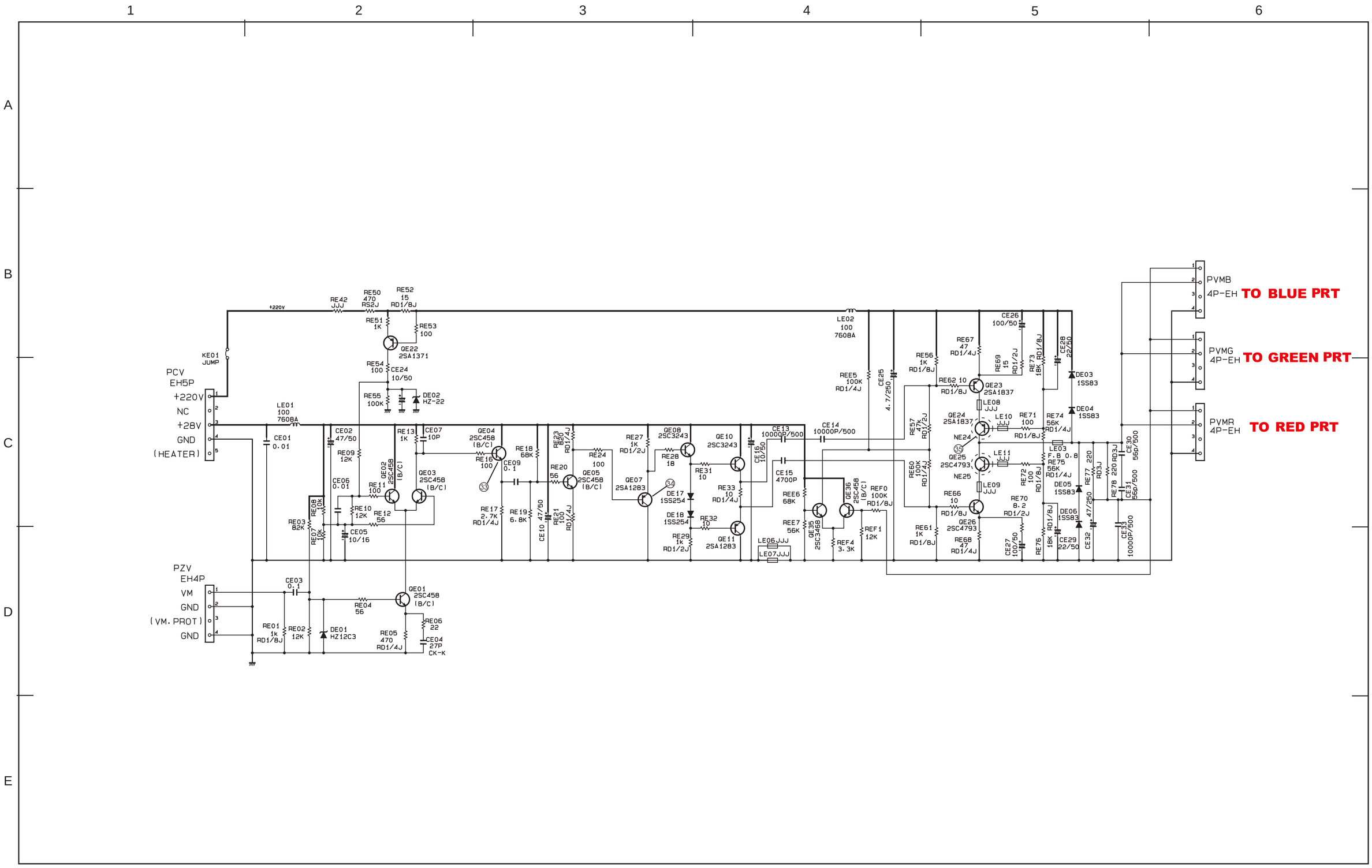
BASIC CIRCUIT DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

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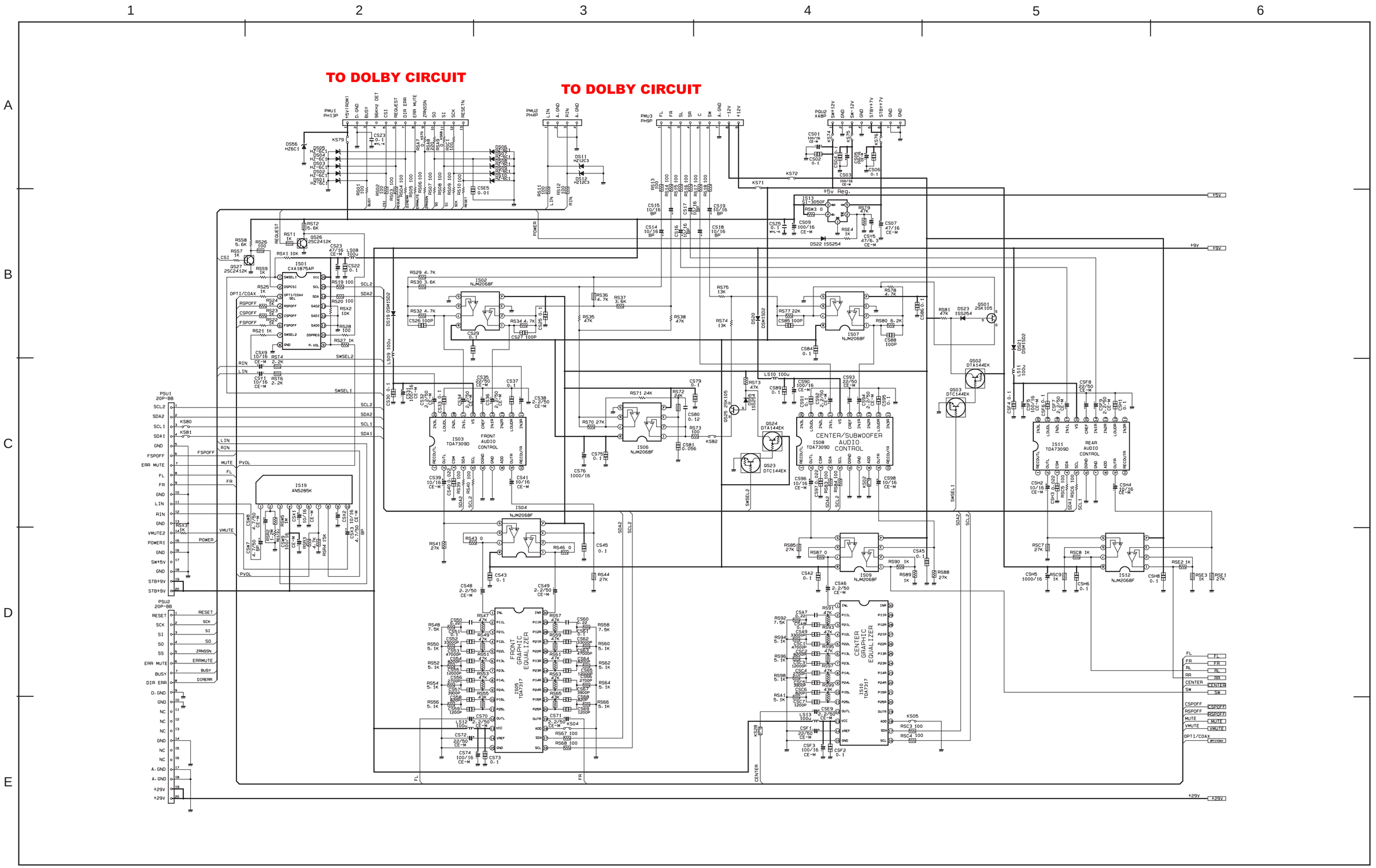
BASIC CIRCUIT DIAGRAM



TO DOLBY CIRCUIT

TO DOLBY CIRCUIT

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

HOME

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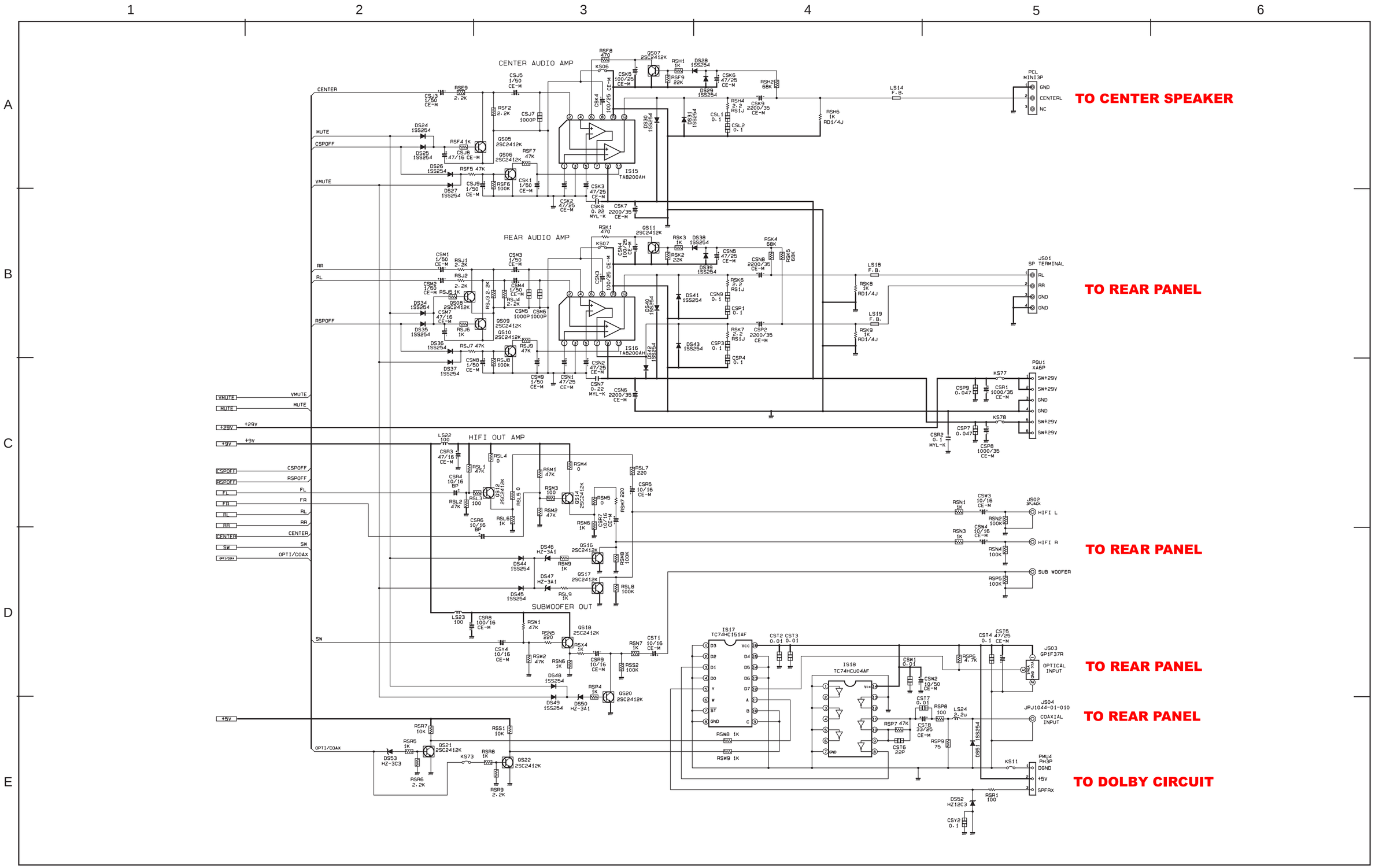
BASIC CIRCUIT DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

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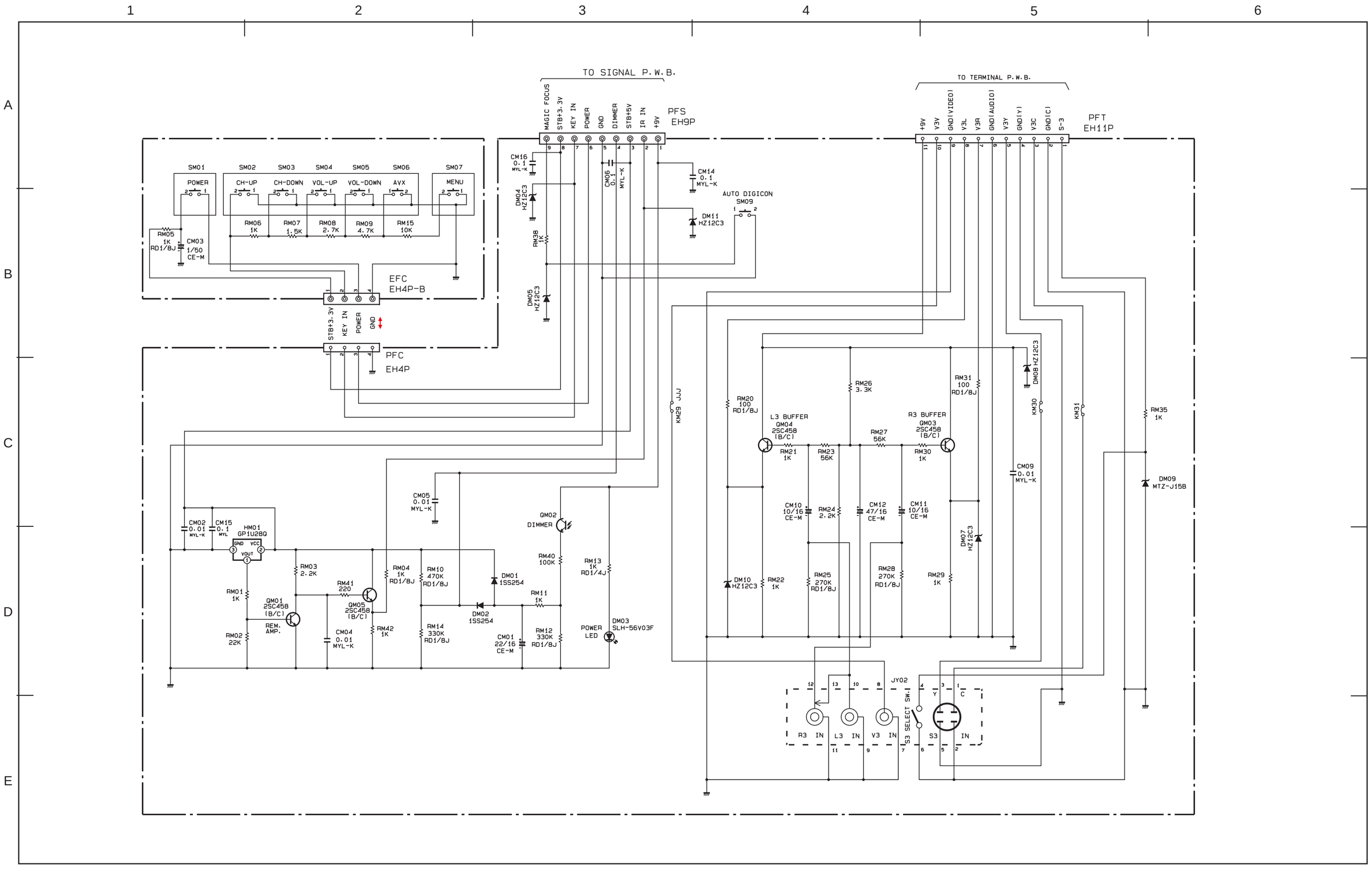
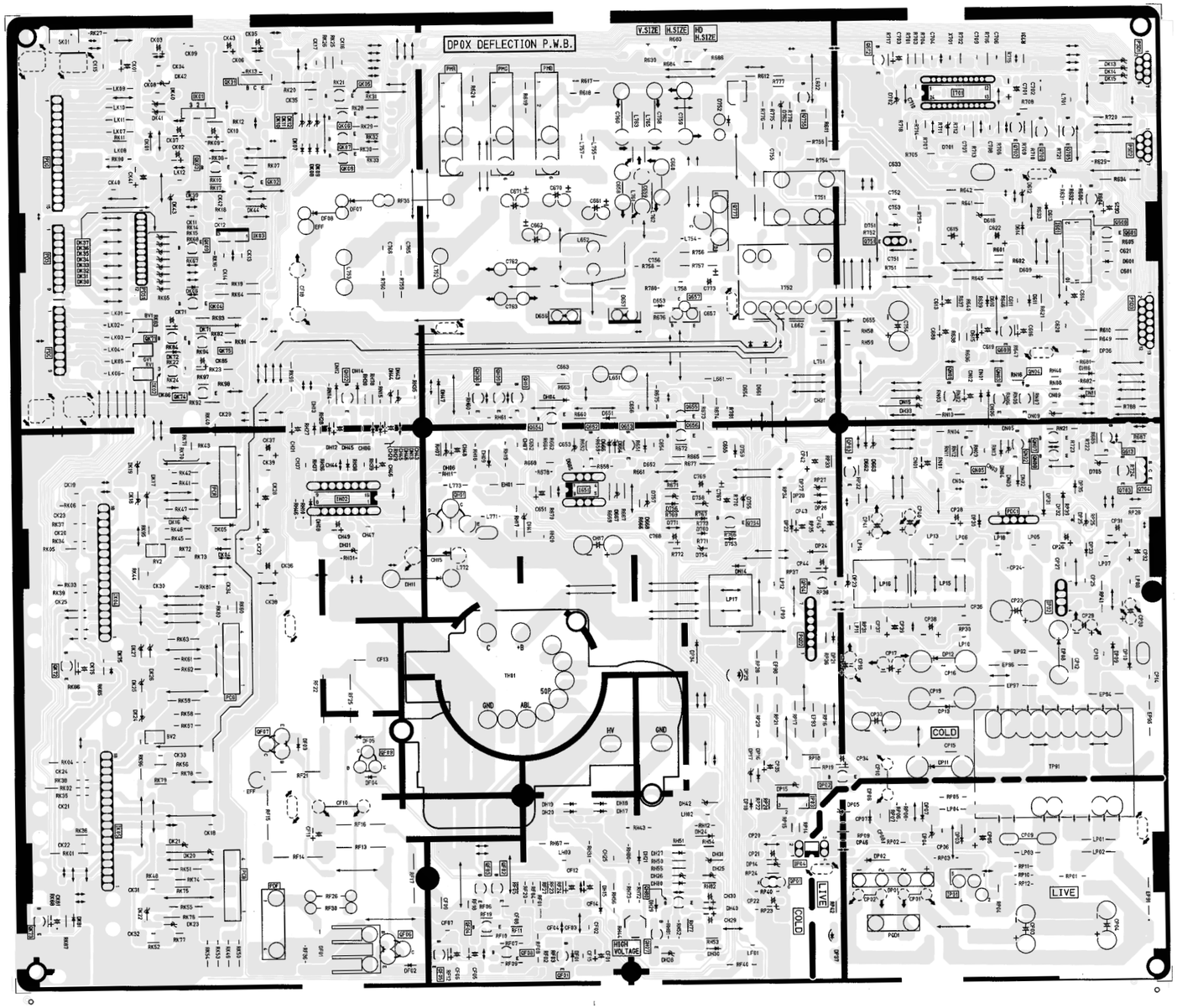
BASIC CIRCUIT DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

PRINTED CIRCUIT BOARD

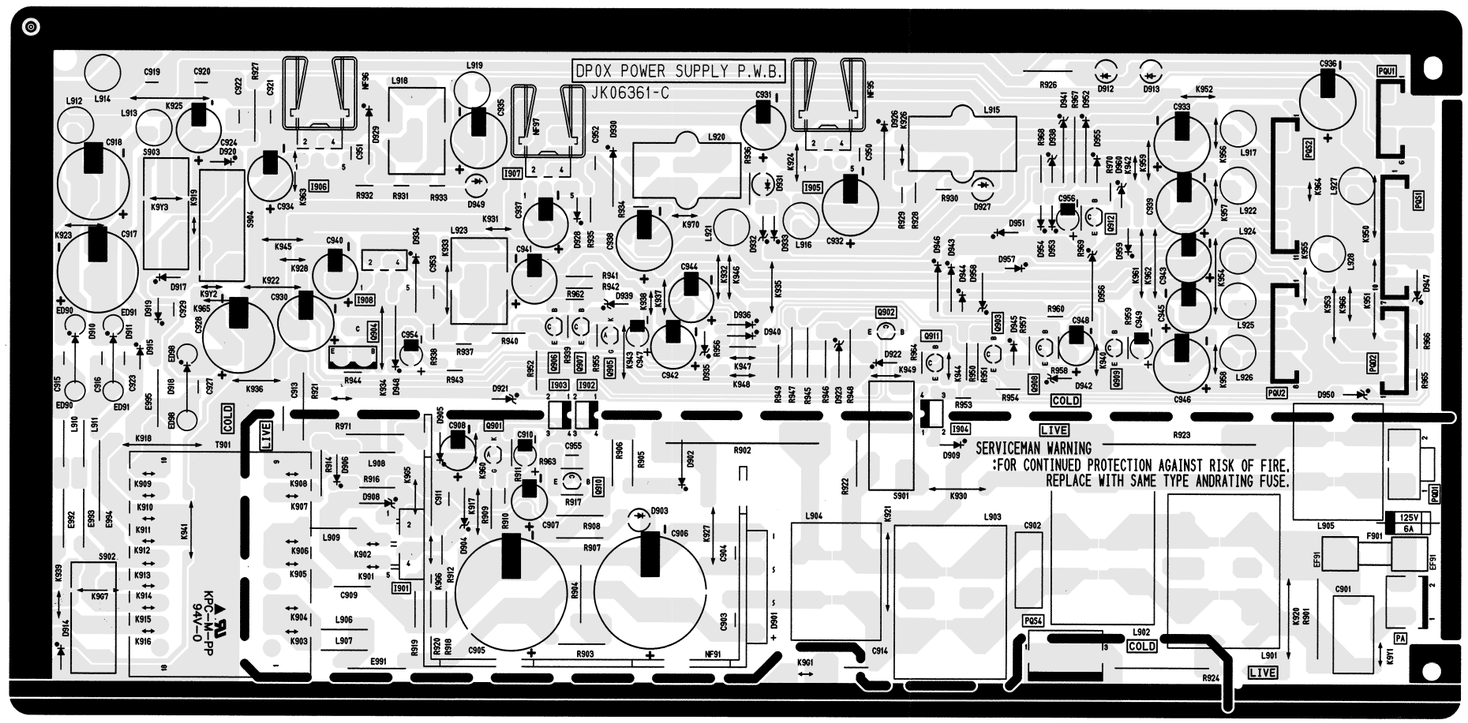
DEFLECTION P.W.B.



HOME

PRINTED CIRCUIT BOARD

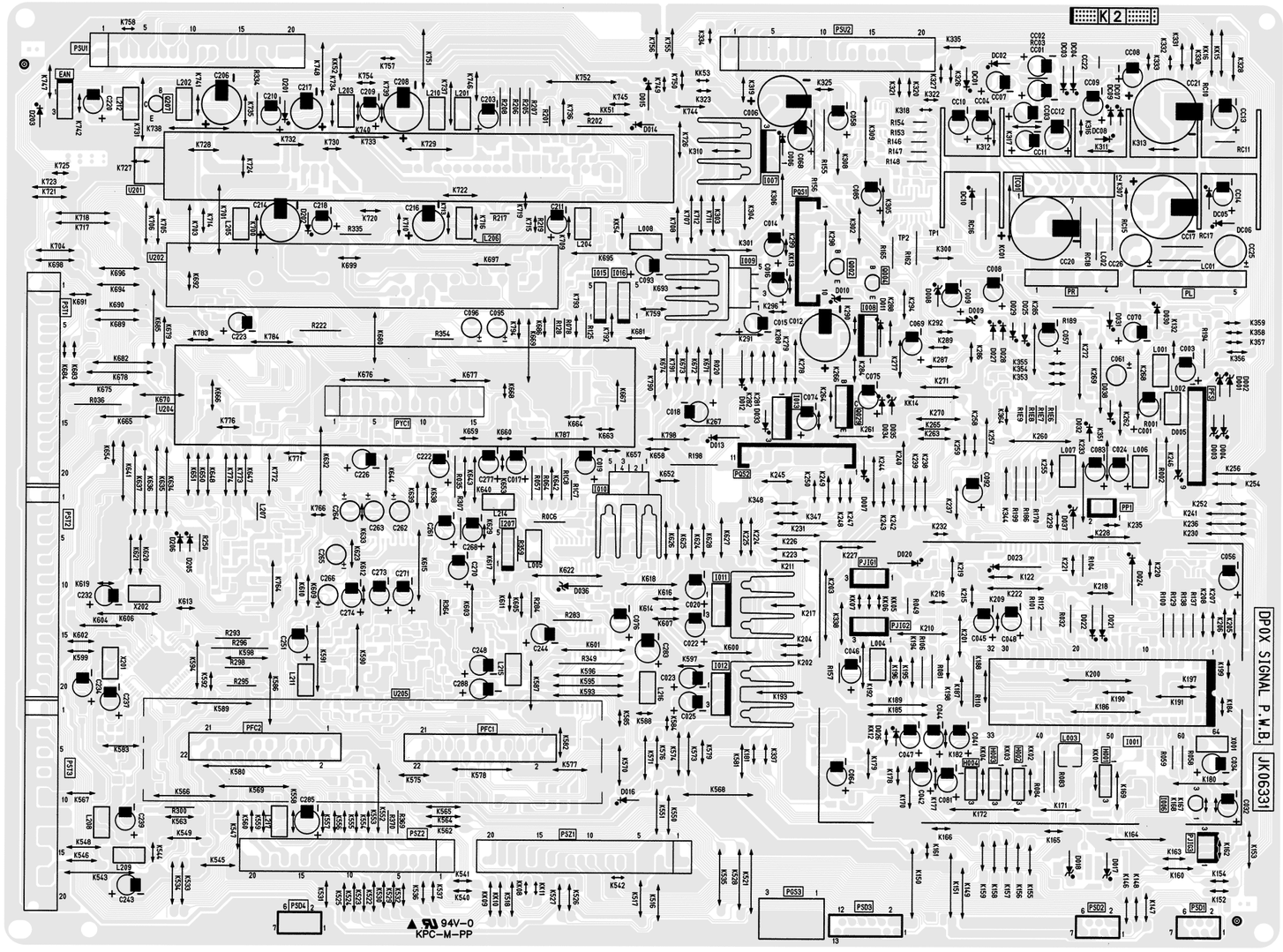
POWER SUPPLY P.W.B.



HOME

PRINTED CIRCUIT BOARD

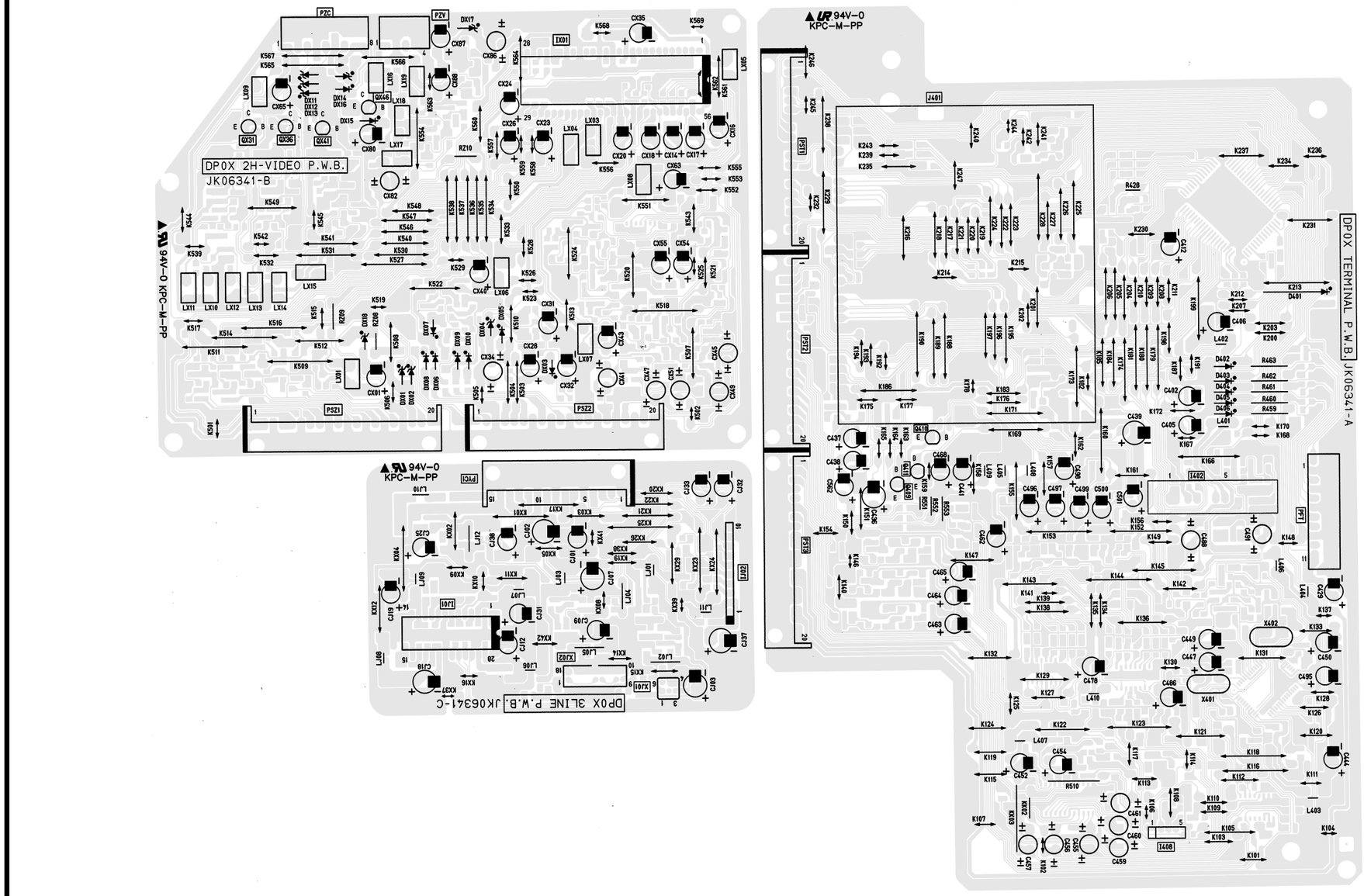
SIGNAL P.W.B.



HOME

PRINTED CIRCUIT BOARD

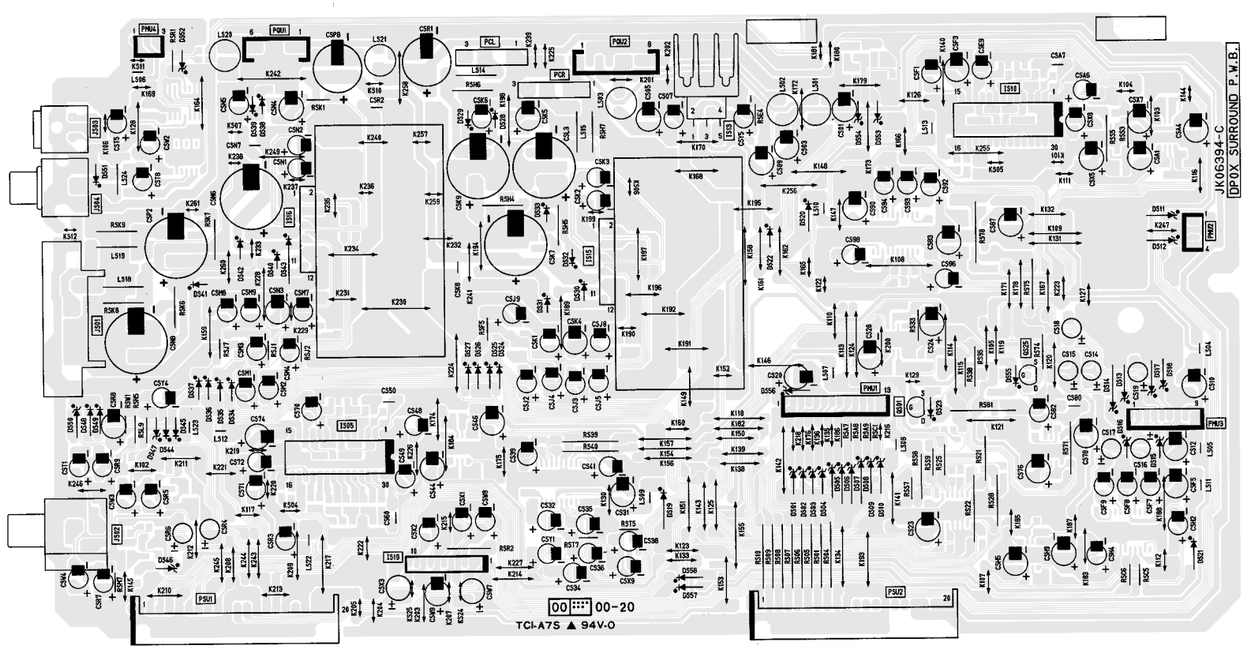
2H Video/Terminal P.W.B.

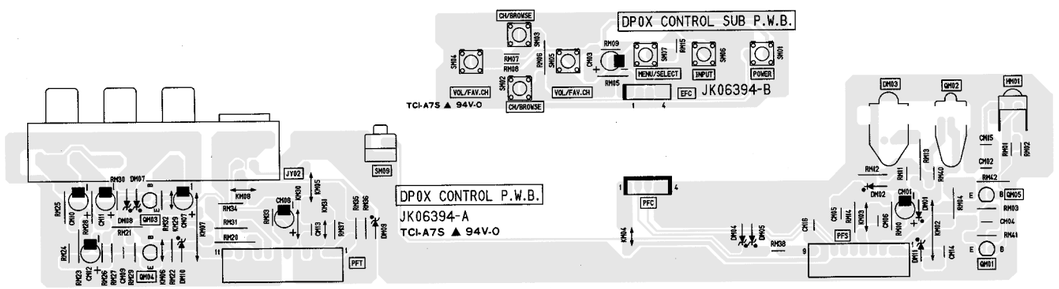


HOME

PRINTED CIRCUIT BOARD

SURROUND P.W.B.

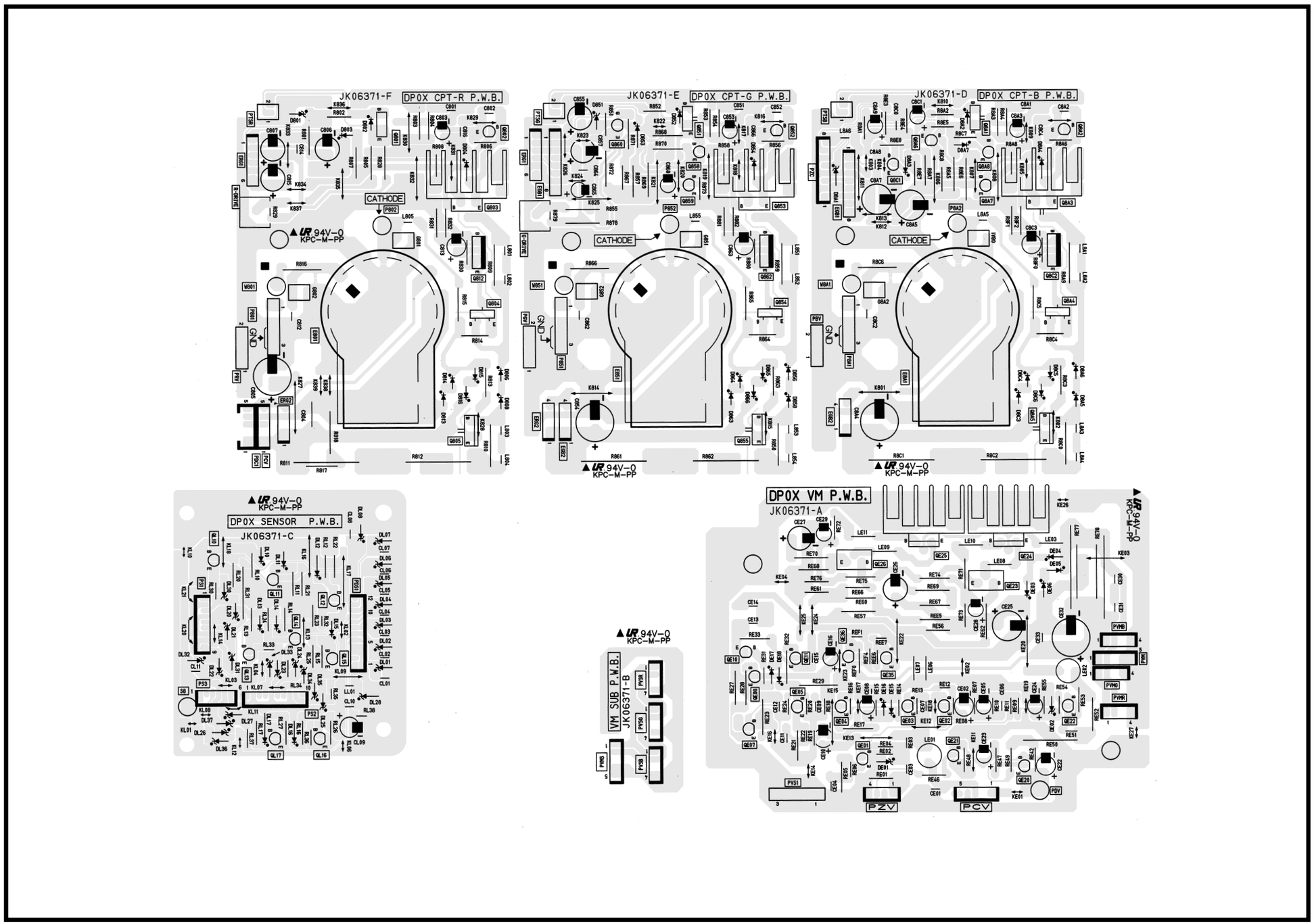




HOME

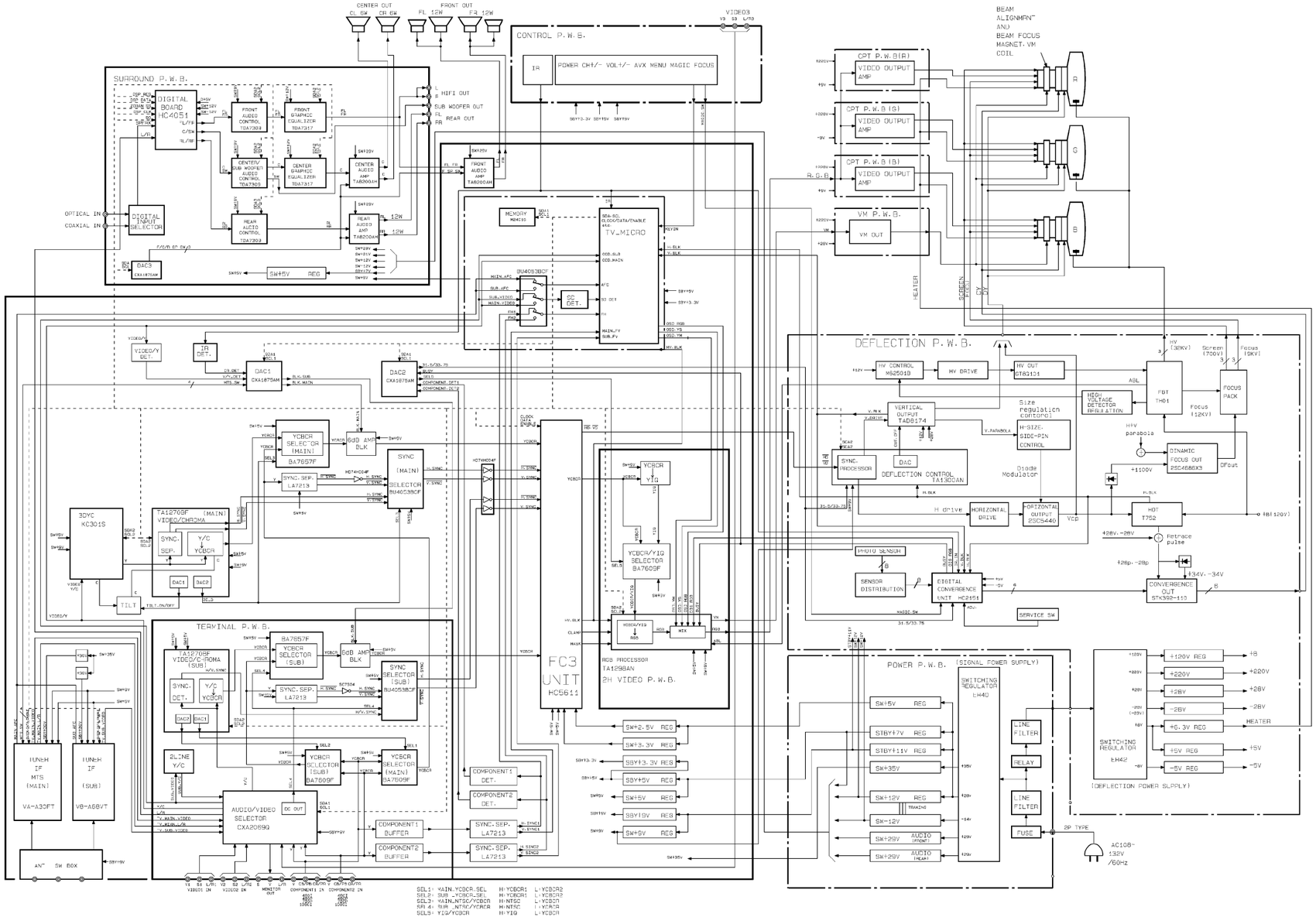
PRINTED CIRCUIT BOARD

VM SENSOR 2



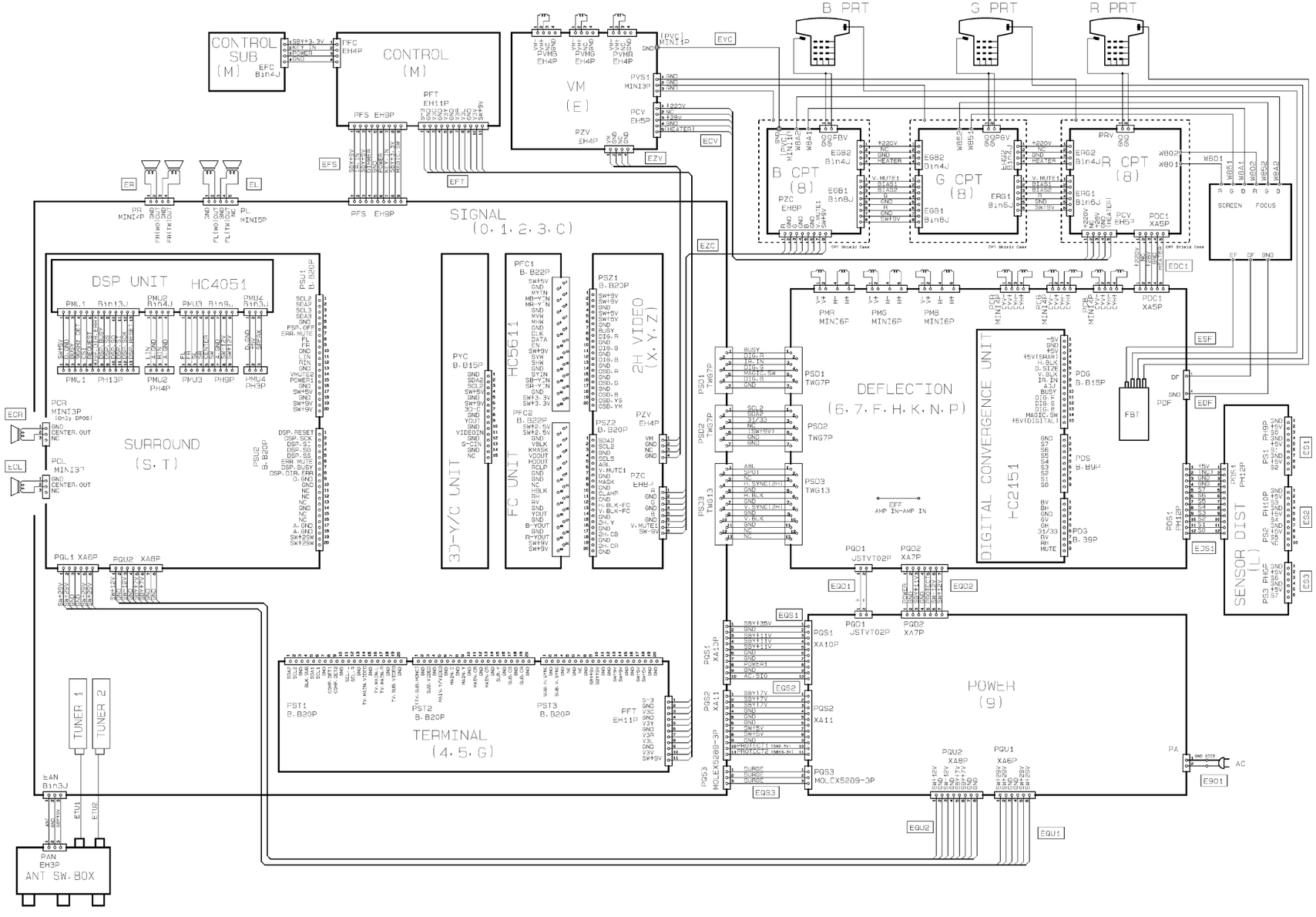
HOME

DP07 BLOCK DIAGRAM



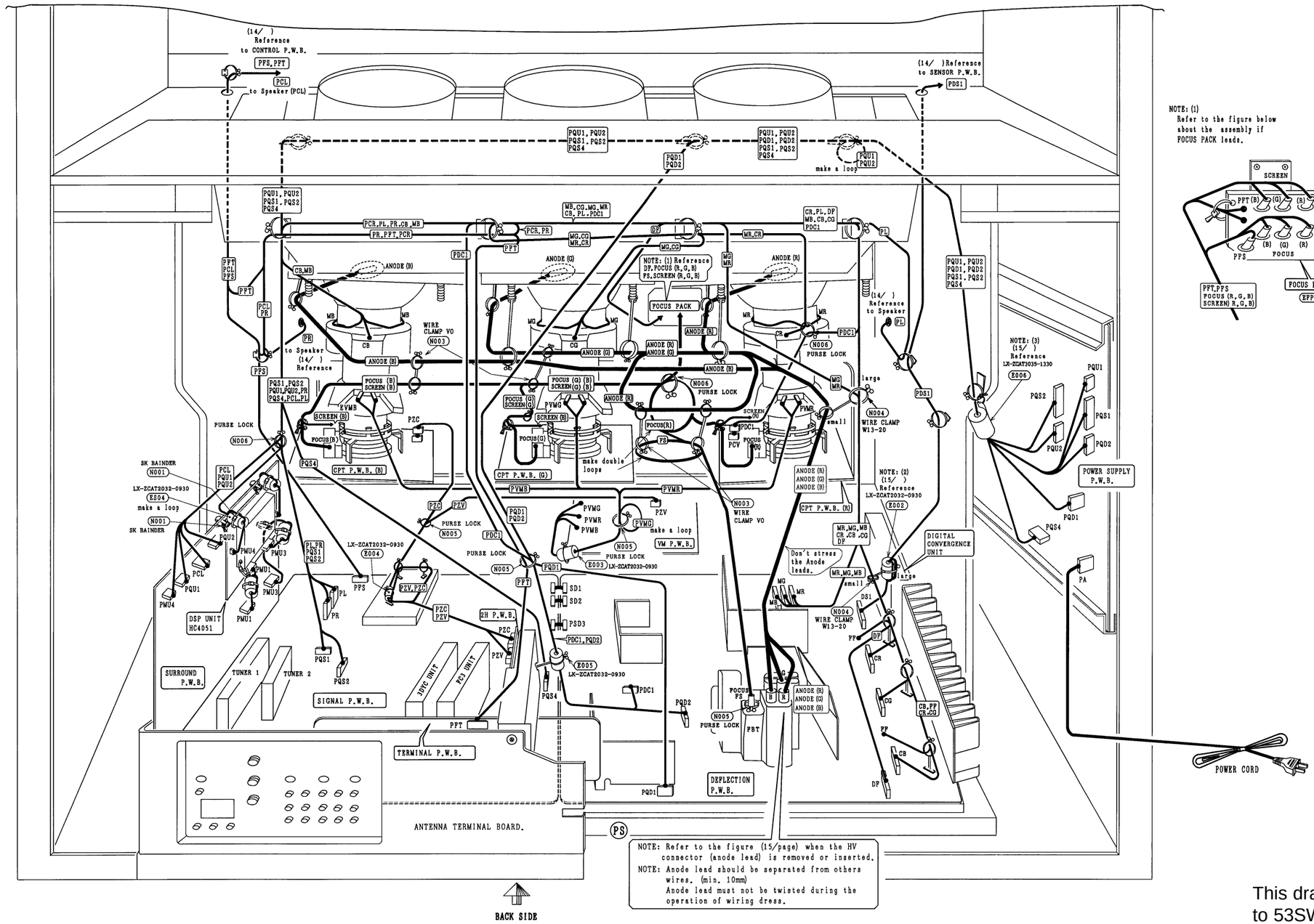
HOME

DP07 WIRING DIAGRAM

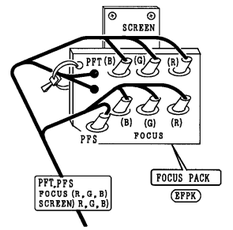


HOME

DP07 CHASSIS WIRING DRAWING



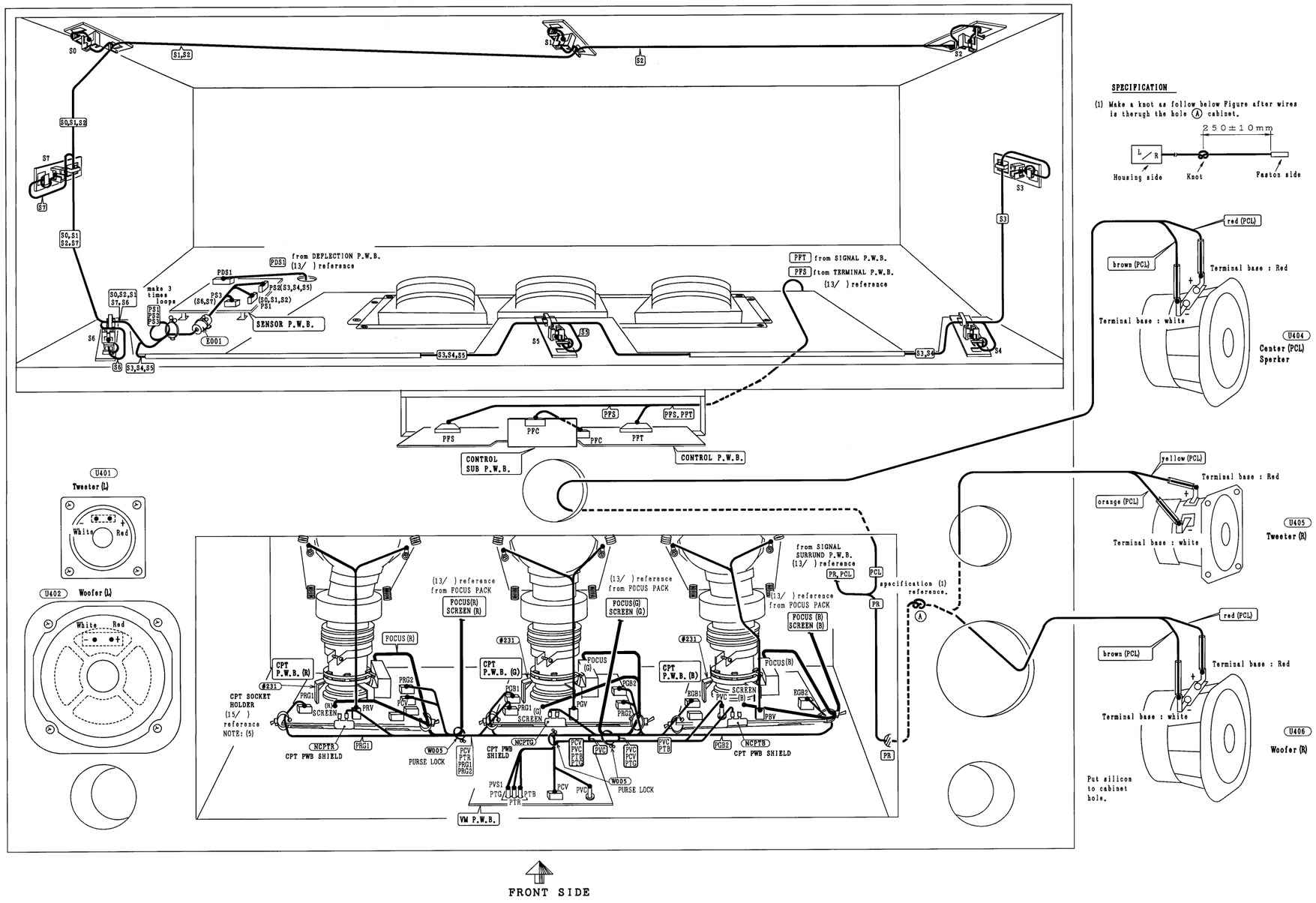
NOTE: (1)
Refer to the figure below about the assembly if FOCUS PACK leads.



This drawing applies to 53SWX01W

HOME

DP07 CHASSIS WIRING DRAWING



This drawing applies to 53SWX01W

HOME

DP07 WIRING DRESS DRAWING

★ CAUTIONS WHEN CONNECTING/DIS CONNECTING THE HV CONNECTOR

During Removal

1. Roll out silicon cover from FBT's contact area slowly.
2. While turning the connector about 90 degrees following the arrow (O position). push the connector slightly towards the case. (Fig.A)

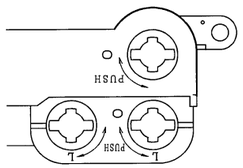


Fig. A

3. Pemove the connector slowly by pulling it away from the case.

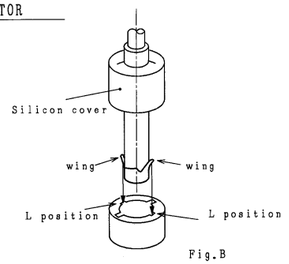


Fig.B

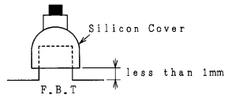
PS process

During Insertion

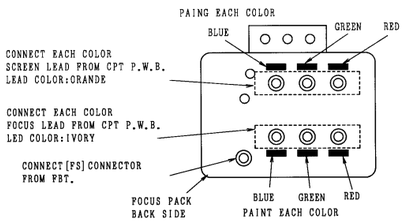
1. Plesse refer to direction for insertion as shown in Fig.B (L position) Insert connector till "CLICK" sound is heard.
2. Meke sure the connector is pressed right in, so that it has a good contact with the spring.
3. Confirm the contact by pulling the connector slightly. (Don't pull hard because it may damage the connector.)
4. Cover the high voltage output by carefully pushing silicon cover on to it. (Don't turn the connector.)

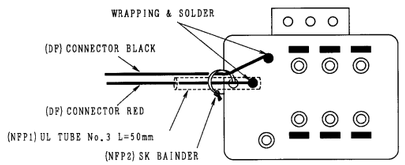
(REMARK)

1. Make sure the silicon cover is covered the high voltage output.

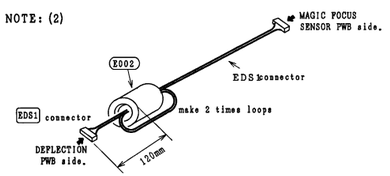


★ (UFPK) FOCUS PACK ASY.

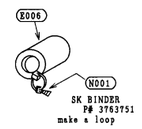




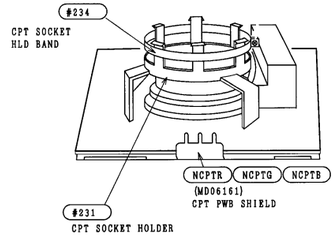
NOTE: (2)



NOTE: (3)



NOTE: (4) CPT SOCKET HOLDER ASSEMBLY. (R.G.B)
CPT SOCKET HOLDER ASSEMBLY SHOULD BE FOLLOWED BELOW DIG.



★ AUTO SET UP SENSOR (ESE0~ESE7) ASY.

1. CAUSES OF THE DAMAGE ON CHARACTERISTICS

Mainly 2 possibilities can be considered as major causes of failure in charactenstics of amorphous silicon solar cell. One possibility is mechanical stress against thin film and the another is electrostatic damage on thin film.

Damage of thin film caused by mechanical stress is the phenomenon like as following example. Certain sharp edged tool makes a scratch at the place where resin is coated on the cell backside. Because of this scratch, a pin-hole can be created in the thin film, then affect open circuit voltage (Voc) of cell in the rnd. Please refer to the page X/Y in which possible mechanical damage to the thin film is described by illustration.

On the other hand, electrostatic damage to the thin film is the phenomenon that static electricity generated by some friction between trays made of inconductive material affects of cell and cause the decrease in open circuit voltage.

2. CAUTION IN HANDLING

There is a possibility that the tesin on cell backside can be scratched by certain sharp edged tool. Pleade pay necessary attention on this poing during handling. Also, in order to prevent electrostatic damage to the thin film caused by friction of trays made of inconductive material, please make sure to use to only kyocera's trays made of conductive material until start assembling amorphous silicon solar cell.

Please make sure using surgical finger caps or tweezers while handling cells. Do not touch the cells with naked fingers!

3. DEOPPED CELL

When a cell is dropped to somewhere, please check open circuit voltage by using voltage tester under FLKOOLux and check whether Voc is over 0.5V or not. If Voc is less than 0.5V, please do not use such cell as there is a high possibility that the thin film is damaged at the time os drop.

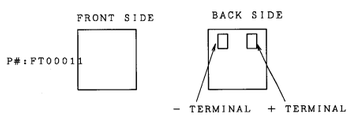
4. WIRING METHOD FOR SOLDERING TYPE TERMINALS

A. TOOLS
1) Soldering iron : Small tip type (EX.11.5W pen type)
2) Transfprmer : As long as voltage is adjustable in the range of 70 to 100V. it would be sufficient. If there is a voltage adjustable fuction in the soldering iron. transformer is unnecessary.
3) Wire type solder: Less flux type solder is necessary.

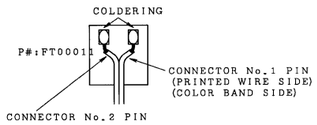
B. WIRING
1) Set the voltage of trasformer in the range of 70 to 100V and wait 10 minutes. Ffter 10 minutes from this setting, start solderning work. (Tmperture of soldering iron tip should be 230℃. Find out appropriate voltage in the range of 70 to 100V which can realize maximum productivity in soldering work.)
2) Put the exposed part of lead wire onto soldering foundation and connect lead wire with the terminal by melting soldering foundation with soldering iron. (Soldering duration should be within 2 secinds.)
3) When lead wire can not he soldered well, apply soldering iron tip again for 1 secind, then repeat this work several times until lead wire is well connected with the terminal. Do not apply soldering longer than 2 seconds.
4) Clean up stain and solder from the soldering iron tip every 3 to 5 times of soldering work.

5. ASSEMBLY OF SILICON SENSOR

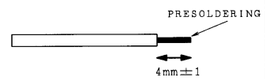
1) SENSOR POLARITY



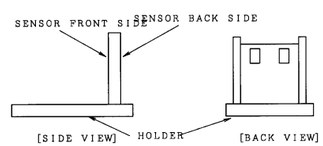
2) SOLDERING SENSOR & WIRE



3) WIRE STRIP SPECIFICATION

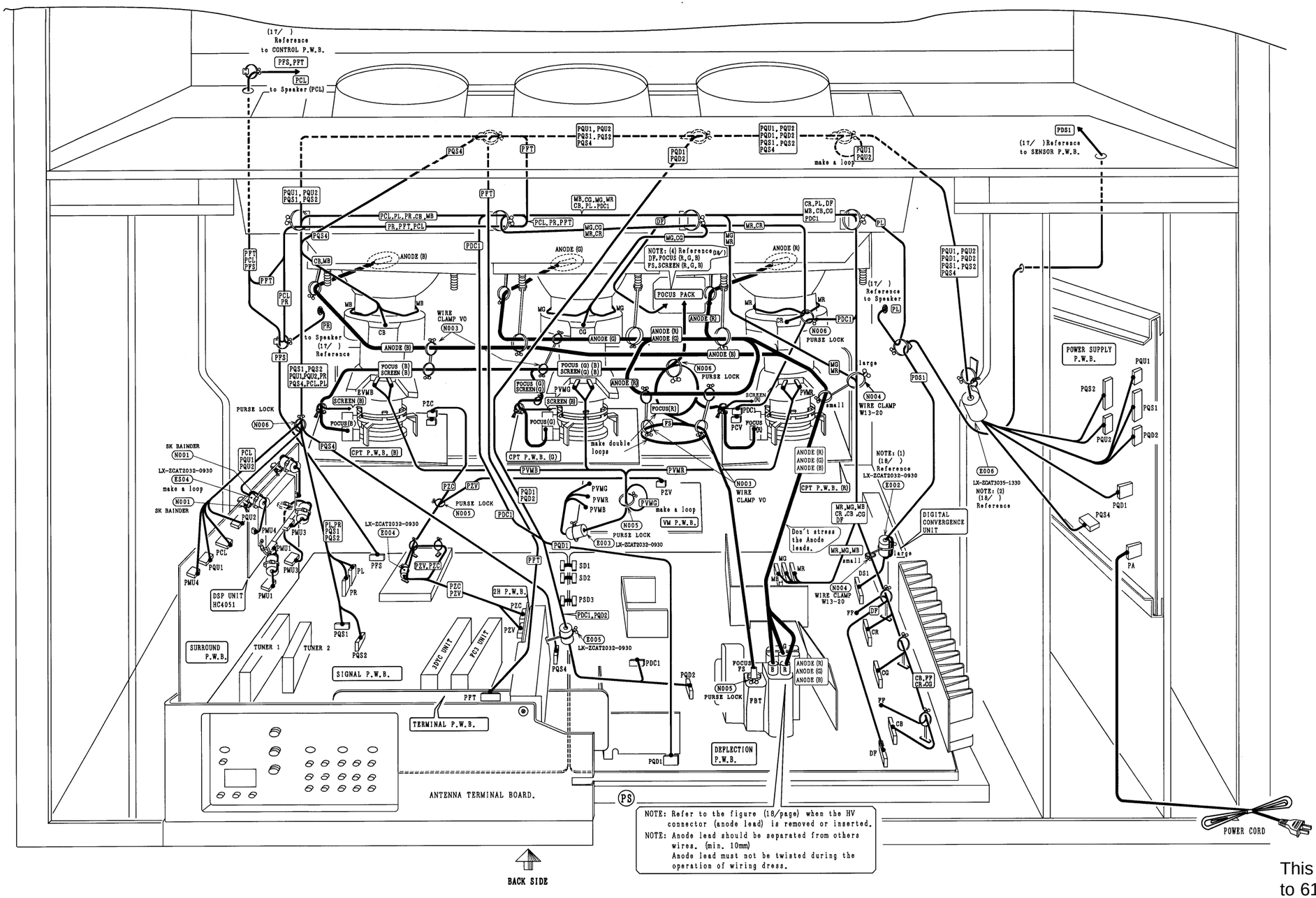


4) SENSOR INSERT DIRECTION TO HOLDER



This drawing applies to 53SWX01W

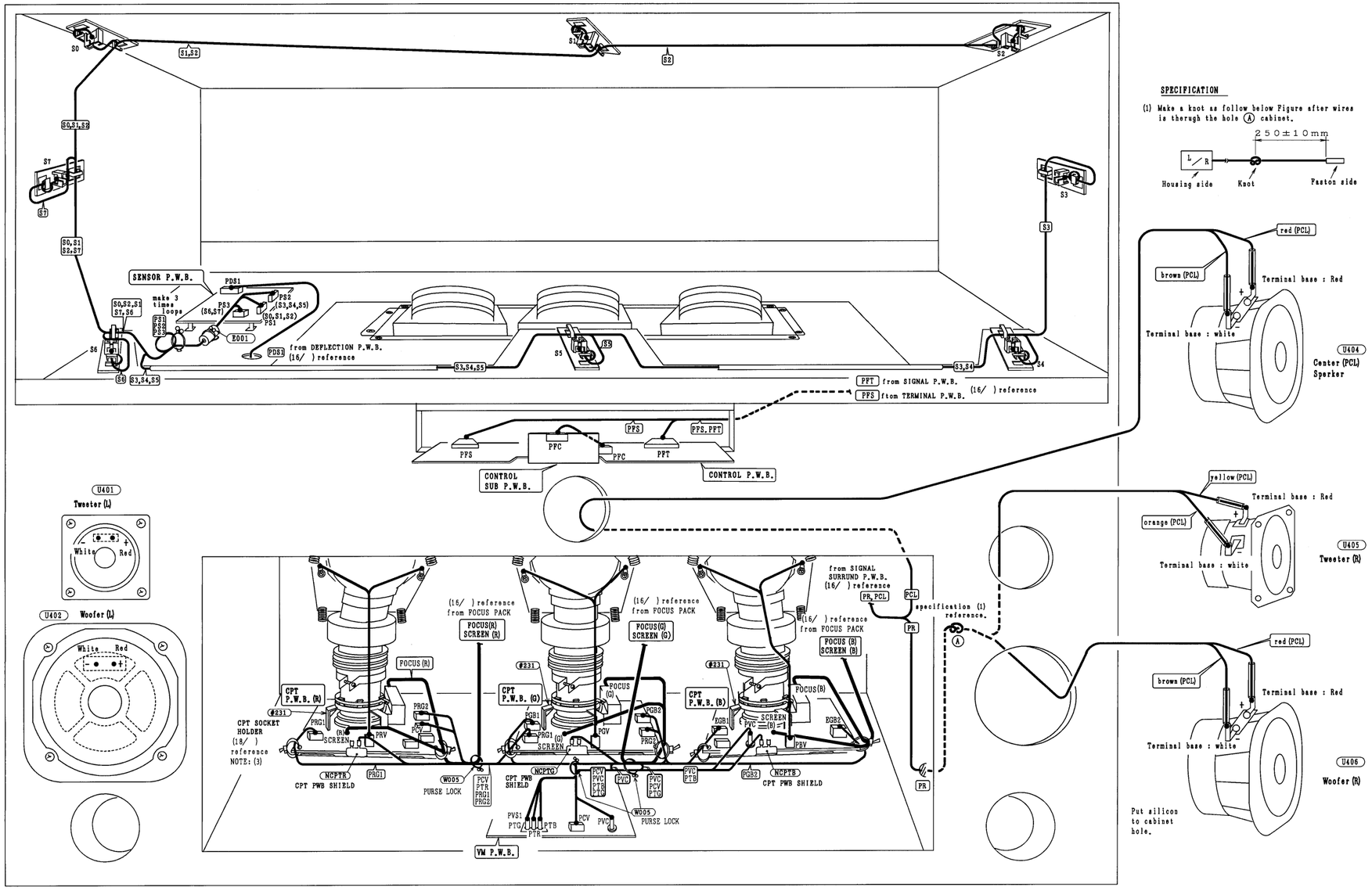
DP07 CHASSIS WIRING DRAWING



This drawing applies to 61SWX01W

HOME

DP07 CHASSIS WIRING DRAWING



This drawing applies to 61SWX01W

HOME

DP07 WIRING DRESS DRAWING

★ CAUTIONS WHEN CONNECTING/DIS CONNECTING THE HV CONNECTOR

During Removal

1. Roll out silicon cover from FBT's contact area slowly.
2. While turning the connector about 90 degrees following the arrow (0 position). push the connector slightly towards the case. (Fig.A)

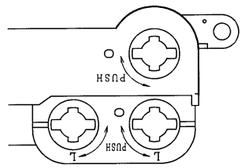


Fig. A

3. Pemove the connector slowly by pulling it away from the case.

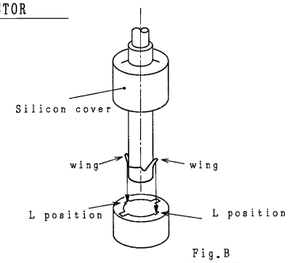


Fig.B

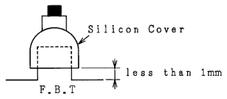
PS process

During Insertion

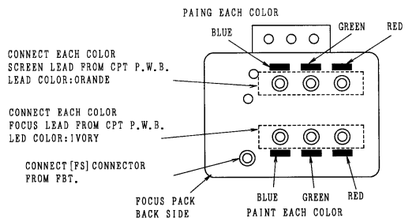
1. Plesse refer to direction for insertion as shown in Fig.B (L position) Insert connector till "CLICK" sound is heard.
2. Meke sure the connector is pressed right in, so that it has a good contact with the spring.
3. Confirm the contact by pulling the connector slightly. (Don't pull hard because it may damage the connector.)
4. Cover the high voltage output by carefully pushing silicon cover on to it. (Don't turn the connector.)

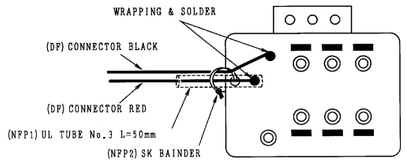
(REMARK)

1. Make sure the silicon cover is covered the high voltage output.

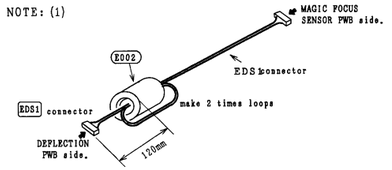


★ (UFPK) FOCUS PACK ASY.

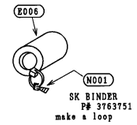




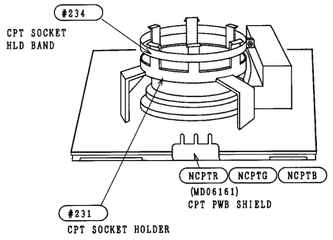
NOTE: (1)



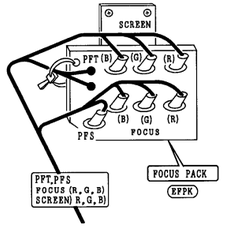
NOTE: (2)



NOTE: (3) CPT SOCKET HOLDER ASSEMBLY. (R,G,B)
CPT SOCKET HOLDER ASSEMBLY SHOULD BE FOLLOWED BELOW DIG.



NOTE: (4)
Refer to the figure below about the assembly if FOCUS PACK leads.



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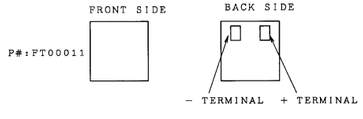
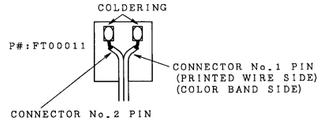
4) Clean up stain and solder from the soldering iron tip every 3 to 5 times of soldering work.

5. ASSEMBLY OF SILICON SENSOR

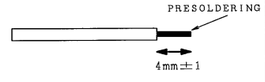
1) SENSOR POLARITY



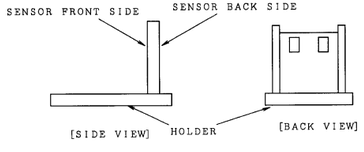
2) SOLDERING SENSOR $ WIRE



3) WIRE STRIP SPECIFICATION



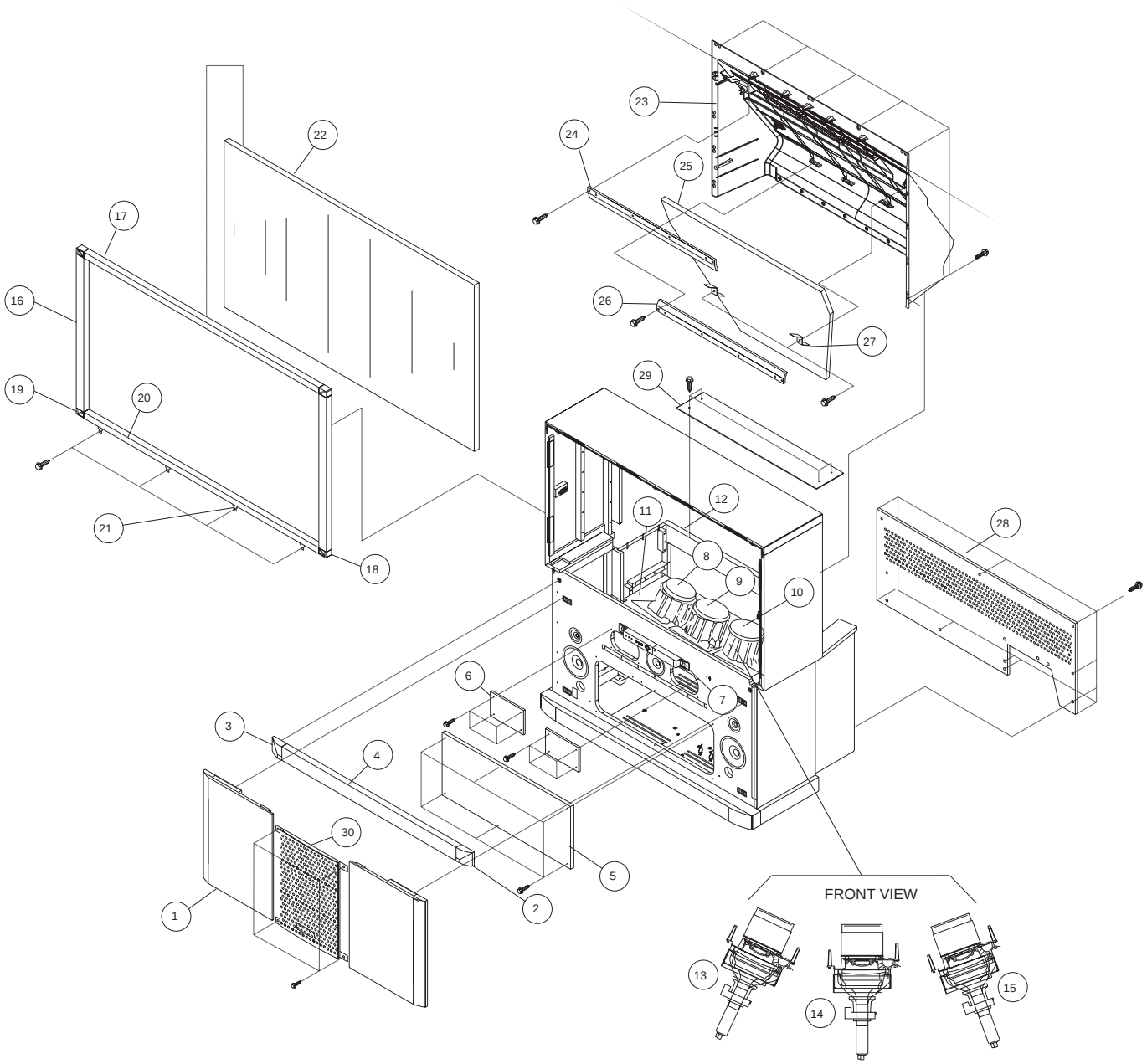
4) SENSOR INSERT DIRECTION TO HOLDER



This drawing applies to 61SWX01W

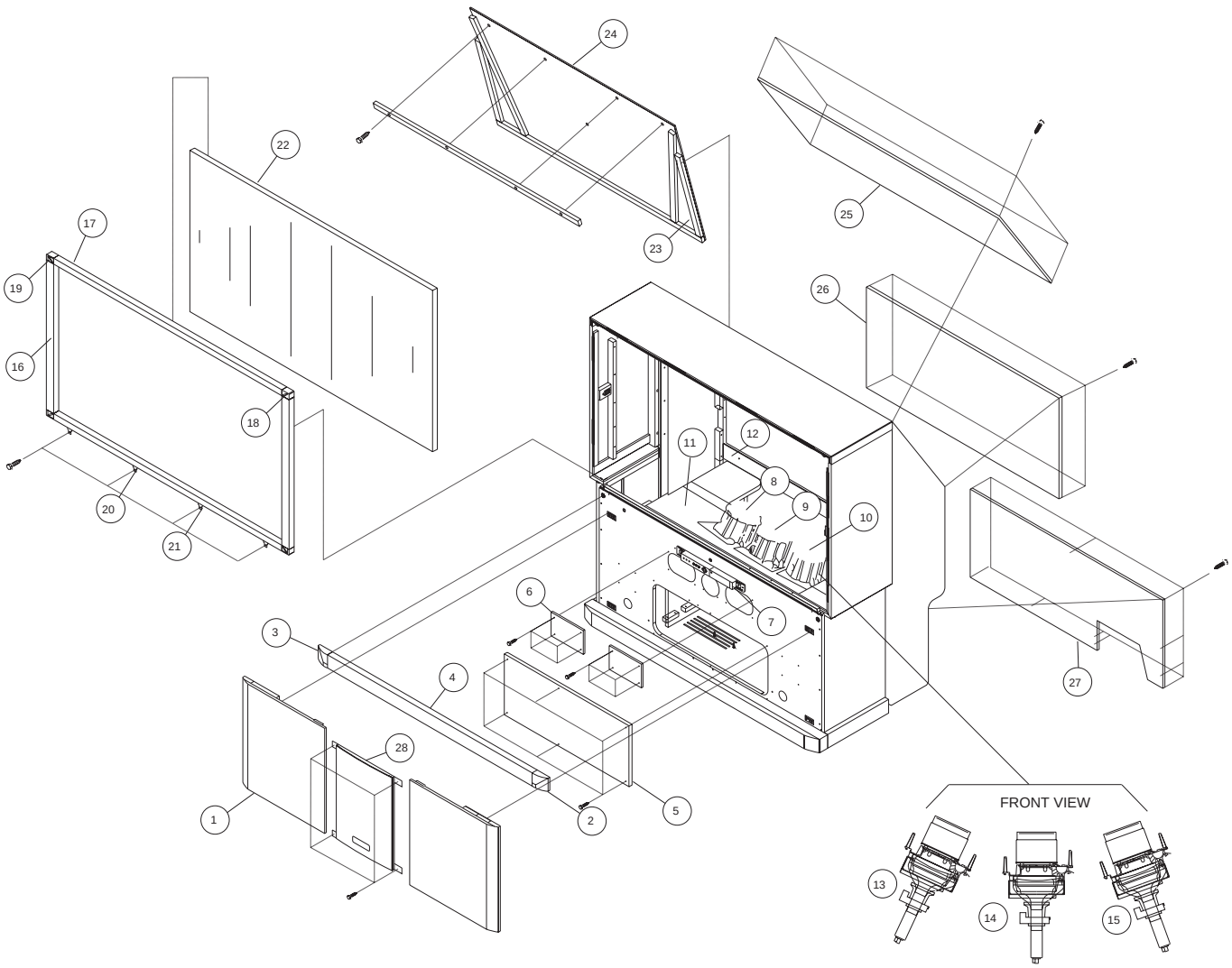
HOME

53SWX01W EXPLODED VIEW



NOTES: Some parts may appear different than those shown in the exploded view. When ordering, refer to the replacement parts list for the correct part number. The circled numbers correspond to the parts list shown on page 143.

61SWX01W EXPLODED VIEW



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REPLACEMENT PARTS LIST

PRODUCT SERVICE NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

ABBREVIATIONS

Capacitors:
- AL: Aluminum Electrolytic
- CD: Ceramic Disc
- EL: Electrolitic
- PF: Polyester Film
- PP: Polypropylene
- PL: Plastic
- TA: Tantalum
- PR: Paper
- TM: Trimmer
- MC: Mylar

Resistors:
- CF: Carbon Film
- CC: Carbon Composition
- MF: Metal Oxide
- VR: Variable Resistor
- WW: Wire Wound
- FR: Fuse Resistor
- MG: Metal Grazed

Semiconductors:
- TR: Transistor
- DI: Diode
- ZD: Zener Diode
- VA: Varistor
- TH: Termistor
- IC: Integrated Circuit

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
		CAPACITORS	C033	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C001	0800326R	CAP.-ELECTRO. 100UF-M 16V	C034	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V
C002	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C035	0228042R	CAP 2125CHIP 33PFJCH 50V TAPE
C003	0800326R	CAP.-ELECTRO. 100UF-M 16V	C036	0228042R	CAP 2125CHIP 33PFJCH 50V TAPE
C004	0893053R	CAP2125CHIP 47000PFKB 50V TAPE	C037	0228042R	CAP 2125CHIP 33PFJCH 50V TAPE
C005	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C038	0228042R	CAP 2125CHIP 33PFJCH 50V TAPE
C006	0800361N	CAP.-ELECTRO 1000UF 16V	C039	0893038R	CAP 2125CHIP 3900PFKB 50V TAPE
C007	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C040	0893044R	CAP2125CHIP 10000PFKB 50V TAPE
C008	0800326R	CAP.-ELECTRO. 100UF-M 16V	C041	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C009	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	C043	0893031R	CAP 2125CHIP 1000PFKB 50V TAPE
C010	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C044	0800315R	CAP.-ELECTRO. 47UF-M(SMG) 6.3V
C011	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C045	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C012	0800359R	CAP.-ELECTRO. 1000UF-M 10V	C046	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C013	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C047	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C014	0800326R	CAP.-ELECTRO. 100UF-M 16V	C048	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C015	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V	C049	0893035R	CAP2125CHIP 2200PFKB 50V TAPE
C016	0800326R	CAP.-ELECTRO. 100UF-M 16V	C04A	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C017	0800325R	CAP.-ELECTRO. 100UF-M 10V	C050	0893035R	CAP2125CHIP 2200PFKB 50V TAPE
C018	0800315R	CAP.-ELECTRO. 47UF-M(SMG) 6.3V	C051	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C019	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V	C052	0893044R	CAP2125CHIP 10000PFKB 50V TAPE
C020	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V	C053	0893044R	CAP2125CHIP 10000PFKB 50V TAPE
C021	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C054	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C022	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V	C055	0893053R	CAP2125CHIP 47000PFKB 50V TAPE
C023	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V	C056	0800326R	CAP.-ELECTRO. 100UF-M 16V
C024	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V	C057	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C025	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V	C058	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V
C026	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	C059	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C027	0228770R	CAPACITOR MINI-CHIP 470PF-J SL 50V TAPE	C060	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C028	0228054R	CAP 2125 CHIP 100PF-J CH 50V TAPE	C061	0284623R	CAP.-ELECTRO. 1UF-SME(BP) 50V
C029	0228058R	CAP 2125 CHIP 150PF-J CH 50V TAPE	C062	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C030	0228070R	CAP 2125 CHIP 470PF-J CH 50V TAPE	C064	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V
C031	0893035R	CAP2125CHIP 2200PFKB 50V TAPE	C065	0228066R	CAP 2125 CHIP 330PF-J CH 50V TAPE
C032	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	C068	0800326R	CAP.-ELECTRO. 100UF-M 16V

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
C069	0800326R	CAP.-ELECTRO. 100UF-M 16V	C238	0228032R	CAP 2125CHIP 12PFJCH 50V TAPE
C070	0800326R	CAP.-ELECTRO. 100UF-M 16V	C239	0800316R	CAP.-ELECTRO. 47UF-M(SMG) 10V
C072	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C240	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C074	0800326R	CAP.-ELECTRO. 100UF-M 16V	C241	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C075	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	C242	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C076	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V	C243	0800326R	CAP.-ELECTRO. 100UF-M 16V
C079	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C244	0800325R	CAP.-ELECTRO. 100UF-M 10V
C080	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C245	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C081	0800326R	CAP.-ELECTRO. 100UF-M 16V	C246	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C082	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C247	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C083	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V	C251	0800326R	CAP.-ELECTRO. 100UF-M 16V
C084	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C252	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C085	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V	C261	0284665R	CAP.-ELECTRO. 47UF-MBPR(SME)6.3V
C092	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	C262	0284665R	CAP.-ELECTRO. 47UF-MBPR(SME)6.3V
C093	0800351R	CAP.-ELECTRO. 470UF-M 6.3V	C263	0284665R	CAP.-ELECTRO. 47UF-MBPR(SME)6.3V
C094	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C264	0284665R	CAP.-ELECTRO. 47UF-MBPR(SME)6.3V
C095	0284623R	CAP.-ELECTRO. 1UF-SME(BP) 50V	C265	0284665R	CAP.-ELECTRO. 47UF-MBPR(SME)6.3V
C096	0284623R	CAP.-ELECTRO. 1UF-SME(BP) 50V	C266	0284665R	CAP.-ELECTRO. 47UF-MBPR(SME)6.3V
C097	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C267	0228070R	CAP 2125 CHIP 470PF-J CH 50V TAPE
C098	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C268	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V
C099	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C269	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C101	0228772R	CAP2125CHIP 560PFJSL 50V TAPE	C270	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C102	0228772R	CAP2125CHIP 560PFJSL 50V TAPE	C271	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C103	0890082R	CAP.-CERAMIC 390PF-K 50V	C272	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C104	0890082R	CAP.-CERAMIC 390PF-K 50V	C273	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C105	0890082R	CAP.-CERAMIC 390PF-K 50V	C274	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C202	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C275	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C203	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V	C277	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V
C205	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C279	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C206	0800361N	CAP.-ELECTRO 1000UF 16V	C280	0893044R	CAP2125CHIP 10000PFKB 50V TAPE
C207	0893053R	CAP2125CHIP 47000PFKB 50V TAPE	C281	0893044R	CAP2125CHIP 10000PFKB 50V TAPE
C208	0800361N	CAP.-ELECTRO 1000UF 16V	C282	0893044R	CAP2125CHIP 10000PFKB 50V TAPE
C209	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	C283	0800352R	CAP.-ELECTRO.470UF 10V
C211	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V	C284	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C214	0800361N	CAP.-ELECTRO 1000UF 16V	C285	0800352R	CAP.-ELECTRO.470UF 10V
C215	0893053R	CAP2125CHIP 47000PFKB 50V TAPE	C286	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C216	0800358R	CAP.-ELECTRO. 1000UF-M 6.3V	C288	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C217	0800358R	CAP.-ELECTRO. 1000UF-M 6.3V	C290	0228772R	CAP2125CHIP 560PFJSL 50V TAPE
C219	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C295	0890068R	CAP.-CERAMIC 39PF-J 50V
C220	0800326R	CAP.-ELECTRO. 100UF-M 16V	C401	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C221	AA00931R	CERAMIC CAPACITOR(1UF 10V)	C402	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C222	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	C403	0893062R	CAP2125CHIP 1000000PFZF16V TAPE
C223	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	C404	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C224	AA00931R	CERAMIC CAPACITOR(1UF 10V)	C405	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V
C225	AA00931R	CERAMIC CAPACITOR(1UF 10V)	C406	0800326R	CAP.-ELECTRO. 100UF-M 16V
C226	0800326R	CAP.-ELECTRO. 100UF-M 16V	C407	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C227	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	C408	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C228	0228048R	CAP 2125 CHIP 56PF-J CH 50V TAPE	C409	0893044R	CAP2125CHIP 10000PFKB 50V TAPE
C229	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	C410	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C231	0893039R	CAP 2125CHIP 4700PFKB 50V TAPE	C411	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C232	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	C412	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C233	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C413	AA00931R	CERAMIC CAPACITOR(1UF 10V)
C234	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	C414	0893062R	CAP2125CHIP 1000000PFZF16V TAPE
C235	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	C415	0893062R	CAP2125CHIP 1000000PFZF16V TAPE
C236	0893035R	CAP2125CHIP 2200PFKB 50V TAPE	C416	AA00931R	CERAMIC CAPACITOR(1UF 10V)
C237	0800273R	CAP.-ELECTRO 0.22UF-M 50V	C419	AA00931R	CERAMIC CAPACITOR(1UF 10V)

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
C420	0893062R	CAP2125CHIP 1000000PFZF16V TAPE	C479	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C421	0893062R	CAP2125CHIP 1000000PFZF16V TAPE	C480	AA00931R	CERAMIC CAPACITOR(1UF 10V)
C422	AA00931R	CERAMIC CAPACITOR(1UF 10V)	C481	0893062R	CAP2125CHIP 1000000PFZF16V TAPE
C423	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C482	0893062R	CAP2125CHIP 1000000PFZF16V TAPE
C424	AA00931R	CERAMIC CAPACITOR(1UF 10V)	C483	0893062R	CAP2125CHIP 1000000PFZF16V TAPE
C425	0893062R	CAP2125CHIP 1000000PFZF16V TAPE	C484	0893062R	CAP2125CHIP 1000000PFZF16V TAPE
C426	0893062R	CAP2125CHIP 1000000PFZF16V TAPE	C485	AA00931R	CERAMIC CAPACITOR(1UF 10V)
C427	AA00931R	CERAMIC CAPACITOR(1UF 10V)	C486	0800316R	CAP.-ELECTRO. 47UF-M(SMG) 10V
C428	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C487	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C429	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V	C490	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C430	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C493	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C431	AA00931R	CERAMIC CAPACITOR(1UF 10V)	C494	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C432	0893062R	CAP2125CHIP 1000000PFZF16V TAPE	C495	0800326R	CAP.-ELECTRO. 100UF-M 16V
C433	0893062R	CAP2125CHIP 1000000PFZF16V TAPE	C496	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C434	AA00931R	CERAMIC CAPACITOR(1UF 10V)	C497	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C435	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C498	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C436	0800352R	CAP.-ELECTRO.470UF 10V	C499	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C437	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	C500	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C438	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	C501	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C439	0800352R	CAP.-ELECTRO.470UF 10V	C502	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C440	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	C503	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C441	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V	C504	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C442	AA00931R	CERAMIC CAPACITOR(1UF 10V)	C505	0893044R	CAP2125CHIP 10000PFKB 50V TAPE
C443	AA00931R	CERAMIC CAPACITOR(1UF 10V)	C506	0893044R	CAP2125CHIP 10000PFKB 50V TAPE
C444	0800316R	CAP.-ELECTRO. 47UF-M(SMG) 10V	C507	0893044R	CAP2125CHIP 10000PFKB 50V TAPE
C445	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C511	0228772R	CAP2125CHIP 560PFJSL 50V TAPE
C446	0228032R	CAP 2125CHIP 12PFJCH 50V TAPE	C562	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C447	0800273R	CAP.-ELECTRO 0.22UF-M 50V	C601	AN00618R	CAP.POLY 0.0039UF 50V TAPE
C448	0893035R	CAP2125CHIP 2200PFKB 50V TAPE	C613	AL01162R	CAP.ELECTRO 10UF-M(YXF)50V
C449	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	C614	0800329R	CAP.-ELECTRO. 100UF-M(SMG) 50V
C450	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	C615	AL01143S	CAP.ELECTROLYTIC 2200UF-M(YXF)25V
C451	0893039R	CAP 2125CHIP 4700PFKB 50V TAPE	C616	AL01336R	ALUMINIUM ELECT. CAPACITOR PW(10UF 16V)
C452	0800316R	CAP.-ELECTRO. 47UF-M(SMG) 10V	C619	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V
C453	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C620	0279692R	CAP.-POLYESTER 0.068UF 100V
C454	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	C621	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C455	0284665R	CAP.-ELECTRO. 47UF-MBPR(SME)6.3V	C622	0800347N	CAP.-ELECTRO. 330UF-M(SMG) 50V
C456	0284665R	CAP.-ELECTRO. 47UF-MBPR(SME)6.3V	C625	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C457	0284665R	CAP.-ELECTRO. 47UF-MBPR(SME)6.3V	C651	0800353R	CAP.-ELECTRO.470UF-M 16V
C458	0228070R	CAP 2125 CHIP 470PF-J CH 50V TAPE	C653	AN00626R	CAP.POLYESTER 0.015UF 50V TAPE
C459	0284665R	CAP.-ELECTRO. 47UF-MBPR(SME)6.3V	C654	AN00624R	CAP.POLY 0.01UF 50V TAPE
C460	0284665R	CAP.-ELECTRO. 47UF-MBPR(SME)6.3V	C655	0880198R	CAP.-PLOY. 0.22UF-J 50V
C461	0284665R	CAP.-ELECTRO. 47UF-MBPR(SME)6.3V	C656	0244501R	CAP.-CERAMIC 1000PF-K 500V
C462	0800326R	CAP.-ELECTRO. 100UF-M 16V	C657	0244507R	CAP.-CERAMIC 3300PF-KB B 500V
C463	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	⚠ C658	0299975F	CAPACITOR-POLYPROPYLENE 0.0033MF 630V
C464	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	⚠ C659	0299975F	CAPACITOR-POLYPROPYLENE 0.0033MF 630V
C465	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	⚠ C660	0299973F	CAP.-POLYPROPYLENE 0.0022UF 630V
C466	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C661	0259471	CAP.-ELECTRO 6.8UF-M (BP) 50V
C467	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	C662	0259471	CAP.-ELECTRO 6.8UF-M (BP) 50V
C468	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V	C680	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C472	AA00931R	CERAMIC CAPACITOR(1UF 10V)	C701	0800361N	CAP.-ELECTRO 1000UF 16V
C473	0893062R	CAP2125CHIP 1000000PFZF16V TAPE	C702	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C474	0893062R	CAP2125CHIP 1000000PFZF16V TAPE	C703	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C475	0893062R	CAP2125CHIP 1000000PFZF16V TAPE	C704	AN00624R	CAP.POLY 0.01UF 50V TAPE
C476	0893062R	CAP2125CHIP 1000000PFZF16V TAPE	C706	AN00624R	CAP.POLY 0.01UF 50V TAPE
C477	AA00931R	CERAMIC CAPACITOR(1UF 10V)	C707	0890074R	CAP.-CERAMIC 100PF-J 50V
C478	0800316R	CAP.-ELECTRO. 47UF-M(SMG) 10V	C708	0890074R	CAP.-CERAMIC 100PF-J 50V

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C709	0880194R	CAP.-POLYESTER 0.1UF-J 50V	C907	0800345R	CAP.-ELECTRO. 330UF-M(SMG) 25V
C752	0244505R	CAP-CERAMIC 0.0022UF-K 500V	C908	0800329R	CAP.-ELECTRO. 100UF-M(SMG) 50V
C753	0243509R	CAP.-CERAMIC 470PF-K 500V	C909	0299616F	CAPACITOR-POLYPROPYLENE FILM 0.0033UF-J 630V
C754	AL01724	CAP.ALUMI.160V 390UF KMH(M)	C910	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C755	0880194R	CAP.-POLYESTER 0.1UF-J 50V	C911	0270425R	CAP.-POLY.1200PF 50V
C756	0890081R	CAP.-CERAMIC 330PF 50V	⚠ C913	AJ00184F	CAP.CERA.CC-222M401E-DF10F11
⚠ C758	AN01131F	METALLIZ POLYPROPYLENE FILM CAPACITOR0.0056UF	⚠ C914	AJ00182F	CAPACITOT CERAMIC CC-102M401E-DF10F8.5
⚠ C759	AN01131F	METALLIZ POLYPROPYLENE FILM CAPACITOR0.0056UF	C915	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE
⚠ C760	AN01128F	METALLIZ POLYPROPYLENE FILM CAPACITOR0.0047UF	C916	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE
C762	AN01177F	CAPACITOR 0.43UF 250V METALLIZ POLYPROPYLENE	C917	AL01172S	CAP.ELECTROLYTIC 2200UF-M(YXF)50V
C763	AN01178F	CAPACITOR 0.47UF 250V METALLIZ POLYPROPYLENE	C918	AL01171S	CAP.ELECTR.1000UF-M(YXF)50V
C765	0244505R	CAP-CERAMIC 0.0022UF-K 500V	C919	0880062R	CAP.-POLYESTER 0.22UF-KEB 50V
C766	0244505R	CAP-CERAMIC 0.0022UF-K 500V	C920	0880062R	CAP.-POLYESTER 0.22UF-KEB 50V
C767	0284677R	CAP.-ELECTORO. 100UF-M (BP) 16V	C921	0244105R	CAP.-CERAMIC 2200PF-K 50V TAPE
C768	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	C922	0880009R	CAP.-POLYESTER 0.01UF-K 50V
C769	0800323R	CAP.-ELECTRO. 47UF-M 100V	C923	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE
C773	0284634R	CAP.-ELECTRO 4.7UF-SME(BP) 50V	C924	0800338R	CAP.ELECTRO.220UF-M 50V(SMG)
C778	0880194R	CAP.-POLYESTER 0.1UF-J 50V	C927	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE
C801	0890081R	CAP.-CERAMIC 330PF 50V	C928	AL01171S	CAP.ELECTR.1000UF-M(YXF)50V
C802	AN00624R	CAP.POLY 0.01UF 50V TAPE	C929	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE
C803	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	C930	AL01153S	CAP.ELECTR. 1000UF-M 35V
C804	0299622F	CAPACITOR-POLYPROPYLENE FILM 0.01UF-J 630V	C931	0800346R	CAP.-ELECTRO 330UF 35V
C805	AL00031R	CAP.-ELECTORO. 33UF-M 250V	C932	AL01117S	CAP.ELECTR.1000UF-M(YXF)10V
C807	0800353R	CAP.-ELECTRO.470UF-M 16V	C933	0284393F	CAP.ELECTR.1000UF-M(KMF)10V
C812	AJ00559	CAPACITOT CERAMIC 2200PF2KV	C934	0800346R	CAP.-ELECTRO 330UF 35V
C813	AL00025R	CAP.ALMI 2.2UF250V	C935	0284408F	CAP.-ELECTRO 1000UF 16V
C814	0880194R	CAP.-POLYESTER 0.1UF-J 50V	C936	0284408F	CAP.-ELECTRO 1000UF 16V
C816	0890087R	CAP.-CERAMIC 1000PF-K 50V	C937	0800346R	CAP.-ELECTRO 330UF 35V
C851	0890082R	CAP.-CERAMIC 390PF-K 50V	C938	AL01106S	CAP.ELECTR.2200UF-M(YXF)6.3V
C852	AN00624R	CAP.POLY 0.01UF 50V TAPE	C939	0284377F	CAP.ELECTR.1000UF-M(KMF)6.3V
C853	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	C940	0800346R	CAP.-ELECTRO 330UF 35V
C854	AL00031R	CAP.-ELECTORO. 33UF-M 250V	C941	AL01128R	CAP.ELECTR.470UF-M(YXF)16V
C857	0800353R	CAP.-ELECTRO.470UF-M 16V	C942	0800353R	CAP.-ELECTRO.470UF-M 16V
C860	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	C943	0800353R	CAP.-ELECTRO.470UF-M 16V
C862	AJ00559	CAPACITOT CERAMIC 2200PF2KV	C944	0800353R	CAP.-ELECTRO.470UF-M 16V
C863	AL00025R	CAP.ALMI 2.2UF250V	C945	0800353R	CAP.-ELECTRO.470UF-M 16V
C864	0880194R	CAP.-POLYESTER 0.1UF-J 50V	C946	0284393F	CAP.ELECTR.1000UF-M(KMF)10V
C865	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V	C947	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C866	0890087R	CAP.-CERAMIC 1000PF-K 50V	C948	0800319R	CAP.-ELECTRO. 47UF-M 35V
C8A1	0890079R	CAP.-CERAMIC 270PF-K 50V	C949	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C8A2	AN00624R	CAP.POLY 0.01UF 50V TAPE	C950	0890087R	CAP.-CERAMIC 1000PF-K 50V
C8A3	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	C951	0890087R	CAP.-CERAMIC 1000PF-K 50V
C8A4	AL00031R	CAP.-ELECTORO. 33UF-M 250V	C952	0890087R	CAP.-CERAMIC 1000PF-K 50V
C8A7	0800353R	CAP.-ELECTRO.470UF-M 16V	C953	0890087R	CAP.-CERAMIC 1000PF-K 50V
C8A8	0880194R	CAP.-POLYESTER 0.1UF-J 50V	C954	0800292R	CAP.-ELECTRO. 10UF-M(SMG) 25V
C8C0	0880194R	CAP.-POLYESTER 0.1UF-J 50V	C955	0880198R	CAP.-PLOY. 0.22UF-J 50V
C8C1	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	C956	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
C8C2	AJ00559	CAPACITOT CERAMIC 2200PF2KV	CC01	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C8C3	AL00025R	CAP.ALMI 2.2UF250V	CC02	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C8C4	0890087R	CAP.-CERAMIC 1000PF-K 50V	CC03	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
⚠ C901	AN01445S	ACROSS CAPA 0.22UF 250V RE224	CC04	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
⚠ C902	AN01443S	ACROSS CAPA 0.1UF 250V RE104	CC05	0893031R	CAP 2125CHIP 1000PFKB 50V TAPE
⚠ C903	AJ00195F	CAPACITOR CERAMIC 4700P 250V F	CC06	0893031R	CAP 2125CHIP 1000PFKB 50V TAPE
⚠ C904	AJ00195F	CAPACITOR CERAMIC 4700P 250V F	CC07	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V
C905	AL01741	CAP.ALUMI.250V 220UF KMH(M)	CC08	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C906	AL01741	CAP.ALUMI.250V 220UF KMH(M)	CC09	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
CC10A	0800318R	CAP.-ELECTRO. 47UF-M 25V	CH25	0279693R	CAP.-POLYESTER FLM 0.1UF
CC11A	0800318R	CAP.-ELECTRO. 47UF-M 25V	CH29	0800352R	CAP.-ELECTRO.470UF 10V
CC12	0800327R	CAP.-ELECTRO. 100UF-M 25V	CH30	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CC13	0800327R	CAP.-ELECTRO. 100UF-M 25V	CH37	AN00618R	CAP.POLY 0.0039UF 50V TAPE
CC14	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V	CH43	0800326R	CAP.-ELECTRO. 100UF-M 16V
CC15	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CH44	0890074R	CAP.-CERAMIC 100PF-J 50V
CC16	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CH45	AN00624R	CAP.POLY 0.01UF 50V TAPE
CC17	0284824F	CAP.-ELECTRO. 2200UF 35V	CH46	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
CC18	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CH47	AN00613R	CAP.POLYESTER 0.0015UF 50V TAPE
CC19	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CH48	0800326R	CAP.-ELECTRO. 100UF-M 16V
CC20	0284824F	CAP.-ELECTRO. 2200UF 35V	CH49	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CC21	0284824F	CAP.-ELECTRO. 2200UF 35V	CK01	0800326R	CAP.-ELECTRO. 100UF-M 16V
CC22	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE	CK02	0800326R	CAP.-ELECTRO. 100UF-M 16V
CC25	0284625R	CAP.-ELECTRO. 2.2UF-SME(BP)50V	CK03	0800326R	CAP.-ELECTRO. 100UF-M 16V
CC26	0284625R	CAP.-ELECTRO. 2.2UF-SME(BP)50V	CK04	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CC27	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE	CK05	0800326R	CAP.-ELECTRO. 100UF-M 16V
CC28	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE	CK06	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CE01	AN00624R	CAP.POLY 0.01UF 50V TAPE	CK07	0800326R	CAP.-ELECTRO. 100UF-M 16V
CE02	0800321R	CAP.-ELECTRO. 47UF-M 50V	CK08	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CE03	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CK09	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CE04	0890066R	CAP.CERAMIC 27PF-J 50V	CK10	0800326R	CAP.-ELECTRO. 100UF-M 16V
CE05	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CK11	AN00615R	CAP.POLYESTER 0.0022UF 50V TAPE
CE06	AN00624R	CAP.POLY 0.01UF 50V TAPE	CK12	0890076R	CAP.CERAMIC 150PF-K 50V
CE07	0890061R	CAP.-CERAMIC 10PF- 50V	CK13	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CE09	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CK14	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CE10	0800321R	CAP.-ELECTRO. 47UF-M 50V	CK15	AN00611R	CAP.POLYSTYLENE 0.001UF 50V TAPE
CE13	0244541F	CAPACITOR-CERAMIC 0.01MF-K B 500V	CK18	AN00624R	CAP.POLY 0.01UF 50V TAPE
CE14	0244541F	CAPACITOR-CERAMIC 0.01MF-K B 500V	CK19	AN00624R	CAP.POLY 0.01UF 50V TAPE
CE15	AN00619R	CAP.POLYESTER 0.0047UF 50V TAPE	CK20	0890076R	CAP.CERAMIC 150PF-K 50V
CE16	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	CK21	0890076R	CAP.CERAMIC 150PF-K 50V
CE24	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	CK22	0890083R	CAP.-CERAMIC 470PF-K 50V
CE25	AL00027R	CAP.-ELECTORO. 4.7UF-M 250V	CK23	0890076R	CAP.CERAMIC 150PF-K 50V
CE26	0284455R	CEL-ELECTORO. 100UF-M 50V	CK24	0890076R	CAP.CERAMIC 150PF-K 50V
CE27	0284455R	CEL-ELECTORO. 100UF-M 50V	CK25	0890076R	CAP.CERAMIC 150PF-K 50V
CE28	0800303R	CAP.-ELECTRO. 22UF-M 50V	CK27	0800356N	CAP.-ELECTRO. 470UF-M 50V
CE29	0800303R	CAP.-ELECTRO. 22UF-M 50V	CK28	0800356N	CAP.-ELECTRO. 470UF-M 50V
CE30	0247848R	CAP.-CERAMIC 56PF-J SL 500V	CK29	0890076R	CAP.CERAMIC 150PF-K 50V
CE31	0247848R	CAP.-CERAMIC 56PF-J SL 500V	CK30	0890076R	CAP.CERAMIC 150PF-K 50V
CE32	AL00032R	CAP.-ELECTORO. 47UF-M 250V	CK31	0890076R	CAP.CERAMIC 150PF-K 50V
CE33	0244541F	CAPACITOR-CERAMIC 0.01MF-K B 500V	CK32	0890076R	CAP.CERAMIC 150PF-K 50V
CF01	0800361N	CAP.-ELECTRO 1000UF 16V	CK33	0890076R	CAP.CERAMIC 150PF-K 50V
CF02	0880195R	CAP.-POLYESTER 0.12UF-J 50V TAPE	CK34	0890076R	CAP.CERAMIC 150PF-K 50V
CF03	AN00631R	CAP.POLYESTER 0.033UF 50V TAPE	CK38	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CF04	0880196R	CAP.-POLYESTER 0.15UF 50V HFT	CK39	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CF05	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CK43	AN00624R	CAP.POLY 0.01UF 50V TAPE
CF08	AN00614R	CAP.POLYESTER 0.0018UF 50V TAPE	CK71	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CF09	0245156	CAPACITOT CERAMIC 22PF/2KV	CL01	AN00633R	CAP.POLYESTER 0.047UF 50V TAPE
CF10	AN01111F	METALLIZ POLYPROPYLENE FILM CAPACITOR0.001UF	CL02	AN00633R	CAP.POLYESTER 0.047UF 50V TAPE
CF11	0255520R	CAP.-ELECTRO 0.47UF 250V(KME)	CL03	AN00633R	CAP.POLYESTER 0.047UF 50V TAPE
CF12	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CL04	AN00633R	CAP.POLYESTER 0.047UF 50V TAPE
CF13	0245158	CAPACITOT CERAMIC 68PF/2KV	CL05	AN00633R	CAP.POLYESTER 0.047UF 50V TAPE
CF14	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CL06	AN00633R	CAP.POLYESTER 0.047UF 50V TAPE
CF18	AN01137F	CAP. METALLIZ FILM 0.01UF-J 1.8KV	CL07	AN00633R	CAP.POLYESTER 0.047UF 50V TAPE
CH07	0890083R	CAP.-CERAMIC 470PF-K 50V	CL08	AN00633R	CAP.POLYESTER 0.047UF 50V TAPE
⚠ CH15	AN01119F	METALLIZ POLYPROPYLENE FILM CAPACITOR0.0022UF	CL09	0800326R	CAP.-ELECTRO. 100UF-M 16V
CH17	AL01724	CAP.ALUMI.160V 390UF KMH(M)	CL10	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
CM01	0800299R	CAP.-ELECTRO. 22UF-M(SMG) 16V	CP41	0284438F	CAP.-ELECTRO. 330UF-M 35V
CM02	AN00624R	CAP.POLY 0.01UF 50V TAPE	CP42	0800335R	CAP.-ELECTRO. 220UF-M(SMG) 16V
CM03	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	CP43	0800335R	CAP.-ELECTRO. 220UF-M(SMG) 16V
CM04	AN00624R	CAP.POLY 0.01UF 50V TAPE	CP44	0800326R	CAP.-ELECTRO. 100UF-M 16V
CM05	AN00624R	CAP.POLY 0.01UF 50V TAPE	CP45	0800361N	CAP.-ELECTRO 1000UF 16V
CM06	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE	CP47	0244501R	CAP.-CERAMIC 1000PF-K 500V
CM09	AN00624R	CAP.POLY 0.01UF 50V TAPE	CP48	0244501R	CAP.-CERAMIC 1000PF-K 500V
CM10	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CP49	0244501R	CAP.-CERAMIC 1000PF-K 500V
CM11	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CS01	0800326R	CAP.-ELECTRO. 100UF-M 16V
CM12	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V	CS02	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CM14	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE	CS03	0800326R	CAP.-ELECTRO. 100UF-M 16V
CM15	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE	CS04	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CM16	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE	CS05	0800326R	CAP.-ELECTRO. 100UF-M 16V
CN01	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	CS06	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CN02	0800288R	CAP.-ELECTRO. 4.7UF-M(SMG) 50V	CS07	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V
CN03	AN00631R	CAP.POLYESTER 0.033UF 50V TAPE	CS09	0800326R	CAP.-ELECTRO. 100UF-M 16V
CN04	0890084R	CAP.-CERAMIC 560PF-K 50V	CS14	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V
CN09	AN00615R	CAP.POLYESTER 0.0022UF 50V TAPE	CS15	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V
⚠ CP01	AJ00195F	CAPACITOR CERAMIC 4700P 250V F	CS16	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V
⚠ CP02	AJ00195F	CAPACITOR CERAMIC 4700P 250V F	CS17	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V
CP03	AL01746	CAP.ALUMI.250V 560UF KMH(M)	CS18	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V
CP04	AL01746	CAP.ALUMI.250V 560UF KMH(M)	CS19	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V
CP05	0800346R	CAP.-ELECTRO 330UF 35V	CS22	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CP06	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CS23	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V
CP07	0890085R	CAP.-CERAMIC 680PF-K 50V	CS25	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CP09	0299616F	CAPACITOR-POLYPROPYLENE FILM 0.0033UF-J 630V	CS26	0228054R	CAP 2125 CHIP 100PF-J CH 50V TAPE
⚠ CP10	AJ00182F	CAPACITOT CERAMIC CC-102M401E-DF10F8.5	CS27	0228054R	CAP 2125 CHIP 100PF-J CH 50V TAPE
CP12	0244202R	CAP.-CERAMIC 470PF-K 2KV	CS29	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CP13	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE	CS30	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CP14	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE	CS31	0800326R	CAP.-ELECTRO. 100UF-M 16V
CP15	0244202R	CAP.-CERAMIC 470PF-K 2KV	CS32	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V
CP16	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE	CS33	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CP17	AL01153S	CAP.ELECTR. 1000UF-M 35V	CS34	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V
CP18	AL01153S	CAP.ELECTR. 1000UF-M 35V	CS35	0800303R	CAP.-ELECTRO. 22UF-M 50V
CP19	0243511R	CAP.-CERAMIC 680PF-K 500V TAPE	CS36	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V
CP20	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CS37	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CP21	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	CS38	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V
CP22	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	CS39	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
CP23	AL01749	120UF 250V KMH(M)ALUMINIUM ELECTROLYTIC CAPA	CS40	0893048R	CAP2125CHIP 22000PFKB 50V TAPE
CP24	0299610F	CAP.-POLYPRO.FILM 0.001UF 630V	CS41	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
CP25	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CS43	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CP26	0800352R	CAP.-ELECTRO.470UF 10V	CS45	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CP27	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CS48	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V
CP28	0800328R	CAP. ELECTRO. 100UF-M 35V	CS49	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V
CP29	AL01129S	CAP.ELECTROLYTIC 1000UF-M(YXF)16V	CS50	0880198R	CAP.-PLOY. 0.22UF-J 50V
CP30	0284405R	CAP.-ELECTRO. 220UF-M 16V	CS51	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CP31	0800353R	CAP.-ELECTRO.470UF-M 16V	CS52	0893051R	CAP2125CHIP 33000PFKB 50V TAPE
CP32	0800353R	CAP.-ELECTRO.470UF-M 16V	CS53	0893053R	CAP2125CHIP 47000PFKB 50V TAPE
CP33	AL01723	CAP.ALUMI.160V 330UF KMH(M)	CS54	0893043R	CAP 2125CHIP 8200PFKB 50V TAPE
CP34	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V	CS55	0893015R	CAP 2125CHIP 12000PFKB 25V TAPE
CP35	0800303R	CAP.-ELECTRO. 22UF-M 50V	CS56	0893036R	CAP 2125CHIP 2700PFKB 50V TAPE
CP36	0880198R	CAP.-PLOY. 0.22UF-J 50V	CS57	0893038R	CAP 2125CHIP 3900PFKB 50V TAPE
CP37	0880198R	CAP.-PLOY. 0.22UF-J 50V	CS58	0228076R	CAP 2125 CHIP 820PF-J CH 50V TAPE
CP38	0800355N	CAP.ELECTRO. 470UF-M 35V	CS59	0893032R	CAP 2125CHIP 1200PFKB 50V TAPE
CP39	0800355N	CAP.ELECTRO. 470UF-M 35V	CS60	0880198R	CAP.-PLOY. 0.22UF-J 50V
CP40	0284438F	CAP.-ELECTRO. 330UF-M 35V	CS61	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
CS62	0893051R	CAP2125CHIP 33000PFKB 50V TAPE	CSH1	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CS63	0893053R	CAP2125CHIP 47000PFKB 50V TAPE	CSH2	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
CS64	0893043R	CAP 2125CHIP 8200PFKB 50V TAPE	CSH3	0893048R	CAP2125CHIP 22000PFKB 50V TAPE
CS65	0893015R	CAP 2125CHIP 12000PFKB 25V TAPE	CSH4	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
CS66	0893036R	CAP 2125CHIP 2700PFKB 50V TAPE	CSH5	0800361N	CAP.-ELECTRO 1000UF 16V
CS67	0893038R	CAP 2125CHIP 3900PFKB 50V TAPE	CSH6	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CS68	0228076R	CAP 2125 CHIP 820PF-J CH 50V TAPE	CSH8	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CS69	0893032R	CAP 2125CHIP 1200PFKB 50V TAPE	CSJ3	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CS70	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	CSJ5	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CS71	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	CSJ7	0893031R	CAP 2125CHIP 1000PFKB 50V TAPE
CS72	0800303R	CAP.-ELECTRO. 22UF-M 50V	CSJ8	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V
CS73	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSJ9	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CS74	0800326R	CAP.-ELECTRO. 100UF-M 16V	CSK1	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CS75	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSK2	0800318R	CAP.-ELECTRO. 47UF-M 25V
CS76	0800361N	CAP.-ELECTRO 1000UF 16V	CSK3	0800318R	CAP.-ELECTRO. 47UF-M 25V
CS79	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSK4	0800327R	CAP.-ELECTRO. 100UF-M 25V
CS80	0880195R	CAP.-POLYESTER 0.12UF-J 50V TAPE	CSK5	0800327R	CAP.-ELECTRO. 100UF-M 25V
CS81	0893092R	CAP2125CHIP 56000PFKB 50V TAPE	CSK6	0800318R	CAP.-ELECTRO. 47UF-M 25V
CS84	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSK7	0284824F	CAP.-ELECTRO. 2200UF 35V
CS85	0228054R	CAP 2125 CHIP 100PF-J CH 50V TAPE	CSK8	0880198R	CAP.-PLOY. 0.22UF-J 50V
CS86	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSK9	0284824F	CAP.-ELECTRO. 2200UF 35V
CS88	0228054R	CAP 2125 CHIP 100PF-J CH 50V TAPE	CSL1	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CS89	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSL2	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CS90	0800326R	CAP.-ELECTRO. 100UF-M 16V	CSM1	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CS91	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSM2	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CS92	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	CSM3	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CS93	0800303R	CAP.-ELECTRO. 22UF-M 50V	CSM4	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CS94	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	CSM5	0893031R	CAP 2125CHIP 1000PFKB 50V TAPE
CS95	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSM6	0893031R	CAP 2125CHIP 1000PFKB 50V TAPE
CS96	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CSM7	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V
CS97	0893048R	CAP2125CHIP 22000PFKB 50V TAPE	CSM8	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CS98	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CSM9	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CSA2	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSN1	0800318R	CAP.-ELECTRO. 47UF-M 25V
CSA5	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSN2	0800318R	CAP.-ELECTRO. 47UF-M 25V
CSA6	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	CSN3	0800327R	CAP.-ELECTRO. 100UF-M 25V
CSA7	0880198R	CAP.-PLOY. 0.22UF-J 50V	CSN4	0800327R	CAP.-ELECTRO. 100UF-M 25V
CSA8	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSN5	0800318R	CAP.-ELECTRO. 47UF-M 25V
CSA9	0893051R	CAP2125CHIP 33000PFKB 50V TAPE	CSN6	0284824F	CAP.-ELECTRO. 2200UF 35V
CSC1	0893053R	CAP2125CHIP 47000PFKB 50V TAPE	CSN7	0880198R	CAP.-PLOY. 0.22UF-J 50V
CSC2	0893043R	CAP 2125CHIP 8200PFKB 50V TAPE	CSN8	0284824F	CAP.-ELECTRO. 2200UF 35V
CSC3	0893015R	CAP 2125CHIP 12000PFKB 25V TAPE	CSN9	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CSC4	0893036R	CAP 2125CHIP 2700PFKB 50V TAPE	CSP1	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CSC5	0893038R	CAP 2125CHIP 3900PFKB 50V TAPE	CSP2	0284824F	CAP.-ELECTRO. 2200UF 35V
CSC6	0228076R	CAP 2125 CHIP 820PF-J CH 50V TAPE	CSP3	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CSC7	0893032R	CAP 2125CHIP 1200PFKB 50V TAPE	CSP4	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CSE5	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	CSP7	0893053R	CAP2125CHIP 47000PFKB 50V TAPE
CSE9	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	CSP8	0800363N	CAP.-ELECTRO. 1000UF-M 35V
CSF1	0800303R	CAP.-ELECTRO. 22UF-M 50V	CSP9	0893053R	CAP2125CHIP 47000PFKB 50V TAPE
CSF2	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSR1	0800363N	CAP.-ELECTRO. 1000UF-M 35V
CSF3	0800326R	CAP.-ELECTRO. 100UF-M 16V	CSR2	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE
CSF4	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSR3	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V
CSF5	0800326R	CAP.-ELECTRO. 100UF-M 16V	CSR4	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V
CSF6	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CSR5	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
CSF7	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	CSR6	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V
CSF8	0800303R	CAP.-ELECTRO. 22UF-M 50V	CSR7	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
CSF9	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	CSR8	0800326R	CAP.-ELECTRO. 100UF-M 16V

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
CSR9	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CX43	0800326R	CAP.-ELECTRO. 100UF-M 16V
CST1	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CX44	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CST2	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	CX45	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V
CST3	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	CX47	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V
CST4	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CX49	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V
CST5	0800318R	CAP.-ELECTRO. 47UF-M 25V	CX51	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V
CST6	0228038R	CAP 2125 CHIP 22PF-J CH 50V TAPE	CX53	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CST7	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	CX57	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CST8	0800309R	CAP.-ELECTRO 33UF-M(SMG) 25V	CX59	0893062R	CAP2125CHIP 1000000PFZF16V TAPE
CSW1	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	CX60	0893062R	CAP2125CHIP 1000000PFZF16V TAPE
CSW2	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CX61	0893062R	CAP2125CHIP 1000000PFZF16V TAPE
CSW3	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CX62	0893062R	CAP2125CHIP 1000000PFZF16V TAPE
CSW4	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CX63	0800326R	CAP.-ELECTRO. 100UF-M 16V
CSW7	0284634R	CAP.-ELECTRO 4.7UF-SME(BP) 50V	CX64	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CSW8	0800288R	CAP.-ELECTRO. 4.7UF-M(SMG) 50V	CX65	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V
CSW9	0800326R	CAP.-ELECTRO. 100UF-M 16V	CX66	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CSX1	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CX69	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CSX2	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CX70	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CSX3	0284634R	CAP.-ELECTRO 4.7UF-SME(BP) 50V	CX73	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CSX9	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CX74	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CSY1	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CX78	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CSY2	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CX79	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CSY4	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CX80	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V
CSY5	0800315R	CAP.-ELECTRO. 47UF-M(SMG) 6.3V	CX81	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CSZ5	AN00637R	CAP.POLYESTER 0.1UF 50V TAPE	CX85	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
CX01	0800317R	CAP.-ELECTRO. 47UF-M(SMG) 16V			
CX03	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE			**DIODES**
CX05	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D001	2331849M	ZENER HZ12C3 (TA) SI 500MW
CX06	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D002	2331849M	ZENER HZ12C3 (TA) SI 500MW
CX07	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D003	2331849M	ZENER HZ12C3 (TA) SI 500MW
CX08	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D004	2331849M	ZENER HZ12C3 (TA) SI 500MW
CX09	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D005	2331849M	ZENER HZ12C3 (TA) SI 500MW
CX10	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D007	CH02001M	DIODE 1SR139-400
CX11	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D008	2344041M	DIODE 1SS254TA/1SS270TA
CX12	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D009	2344041M	DIODE 1SS254TA/1SS270TA
CX13	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D010	2331849M	ZENER HZ12C3 (TA) SI 500MW
CX14	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	D012	2344041M	DIODE 1SS254TA/1SS270TA
CX15	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D014	CH02001M	DIODE 1SR139-400
CX17	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	D015	CH02001M	DIODE 1SR139-400
CX18	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	D016	CH02001M	DIODE 1SR139-400
CX19	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	D017	2331827M	ZENER DIODE HZ-9 TAPE (C1) SI 500MW 9.3V
CX20	0800326R	CAP.-ELECTRO. 100UF-M 16V	D018	2331827M	ZENER DIODE HZ-9 TAPE (C1) SI 500MW 9.3V
CX21	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D020	2344041M	DIODE 1SS254TA/1SS270TA
CX22	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D021	2344041M	DIODE 1SS254TA/1SS270TA
CX23	0800326R	CAP.-ELECTRO. 100UF-M 16V	D023	2344041M	DIODE 1SS254TA/1SS270TA
CX25	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D024	2344041M	DIODE 1SS254TA/1SS270TA
CX27	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D025	2344041M	DIODE 1SS254TA/1SS270TA
CX31	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	D026	2344041M	DIODE 1SS254TA/1SS270TA
CX32	0800288R	CAP.-ELECTRO. 4.7UF-M(SMG) 50V	D027	2344041M	DIODE 1SS254TA/1SS270TA
CX33	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D028	2344041M	DIODE 1SS254TA/1SS270TA
CX34	0284634R	CAP.-ELECTRO 4.7UF-SME(BP) 50V	D029	2344041M	DIODE 1SS254TA/1SS270TA
CX35	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V	D030	2344041M	DIODE 1SS254TA/1SS270TA
CX36	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D031	2344041M	DIODE 1SS254TA/1SS270TA
CX37	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	D032	CH02001M	DIODE 1SR139-400
CX38	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	D034	2344041M	DIODE 1SS254TA/1SS270TA
CX39	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	D035	2331779M	ZENER DIODE HZ3C3
CX40	0800326R	CAP.-ELECTRO. 100UF-M 16V	D036	2331849M	ZENER HZ12C3 (TA) SI 500MW

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SYMBOL NO.	PART NO.	PART DESCRIPTION
D037	2331809M	ZENER DIODE HZ-6 TAPE (C3) SI 500MW
D038	2344041M	DIODE 1SS254TA/1SS270TA
D201	2335991M	ZENER HZ-T33 (02 TP)
D202	2335991M	ZENER HZ-T33 (02 TP)
D203	2331849M	ZENER HZ12C3 (TA) SI 500MW
D205	2344041M	DIODE 1SS254TA/1SS270TA
D206	2344041M	DIODE 1SS254TA/1SS270TA
D601	2344041M	DIODE 1SS254TA/1SS270TA
D609	CH02001M	DIODE 1SR139-400
D610	CH02001M	DIODE 1SR139-400
D611	CH02001M	DIODE 1SR139-400
D612	2331154M	ZENER HZ-12 (A1-3 B1-3.TA) SI 200MA 14.3V
D614	CH02011M	DIODE 1SR153-400
D615	2344041M	DIODE 1SS254TA/1SS270TA
D616	2334305M	ZENER RD30E (B4 T2/TP/TA) SI 5MA 30.51V
D651	2344041M	DIODE 1SS254TA/1SS270TA
D652	2344041M	DIODE 1SS254TA/1SS270TA
D653	2344041M	DIODE 1SS254TA/1SS270TA
D654	2333001M	DIODE RU2M (V)
D655	CH02011M	DIODE 1SR153-400
⚠ D656	2349861	DIODE FMU-G16S
⚠ D657	2349861	DIODE FMU-G16S
D661	2333001M	DIODE RU2M (V)
D662	2334315M	ZENER DIODE RD33E TAPE (B4)
D663	2339839M	ZENER HZS5C3 TAPE
D664	2334243M	ZENER RD16E (B2 T2/TP/TA) SI 10MA 16.51V
D666	2334243M	ZENER RD16E (B2 T2/TP/TA) SI 10MA 16.51V
D702	2339882M	ZENER DIODE HZS-12(A2) TAPE
D703	2331807M	ZENER DIODE HZ-6 TAPE (C1) SI 500MW 6.1V
D704	2331807M	ZENER DIODE HZ-6 TAPE (C1) SI 500MW 6.1V
D705	2339855M	ZENER DIODE HZS-7 (B2) TAPE SI 7V
D751	2344041M	DIODE 1SS254TA/1SS270TA
⚠ D752	CH02161	DIODE FMQ-G2FLS (1500V)
D753	2344041M	DIODE 1SS254TA/1SS270TA
D754	2339952M	ZENER DIODE HZS27.2 TA
D755	2339826M	ZENER HZS4B3 TAPE
D756	2344041M	DIODE 1SS254TA/1SS270TA
⚠ D759	CH02001M	DIODE 1SR139-400
D760	CH02011M	DIODE 1SR153-400
D762	2339882M	ZENER DIODE HZS-12(A2) TAPE
D801	2331849M	ZENER HZ12C3 (TA) SI 500MW
D802	2344041M	DIODE 1SS254TA/1SS270TA
D803	2344041M	DIODE 1SS254TA/1SS270TA
D804	2344041M	DIODE 1SS254TA/1SS270TA
D806	2344041M	DIODE 1SS254TA/1SS270TA
D808	2344041M	DIODE 1SS254TA/1SS270TA
D813	2348432M	DIODE RMPG06G
D814	2348432M	DIODE RMPG06G
D815	2348432M	DIODE RMPG06G
D816	2348432M	DIODE RMPG06G
D851	2331849M	ZENER HZ12C3 (TA) SI 500MW
D852	2344041M	DIODE 1SS254TA/1SS270TA
D853	2344041M	DIODE 1SS254TA/1SS270TA
D854	2344041M	DIODE 1SS254TA/1SS270TA
D856	2344041M	DIODE 1SS254TA/1SS270TA
D858	2344041M	DIODE 1SS254TA/1SS270TA
D863	2348432M	DIODE RMPG06G
D864	2348432M	DIODE RMPG06G
D865	2348432M	DIODE RMPG06G
D866	2348432M	DIODE RMPG06G
D8A1	2331849M	ZENER HZ12C3 (TA) SI 500MW
D8A2	2344041M	DIODE 1SS254TA/1SS270TA
D8A3	2344041M	DIODE 1SS254TA/1SS270TA
D8A4	2344041M	DIODE 1SS254TA/1SS270TA
D8A5	2344041M	DIODE 1SS254TA/1SS270TA
D8A6	2344041M	DIODE 1SS254TA/1SS270TA
D8C3	2348432M	DIODE RMPG06G
D8C4	2348432M	DIODE RMPG06G
D8C5	2348432M	DIODE RMPG06G
D8C6	2348432M	DIODE RMPG06G
⚠ D901	2338313	DIODE RBV-406M (60V) SI 0.1USEC
D902	CH02001M	DIODE 1SR139-400
D903	CH00183R	LIGHT EMITTING DIODE (SLZ-981C-06-T1)
D904	2334304M	ZENER RD30E (B3 T2/TP/TA) SI 5MA 30.51V
D905	CH02011M	DIODE 1SR153-400
D906	2344041M	DIODE 1SS254TA/1SS270TA
D908	2331795M	ZENER HZ-5 (B2 TAPE) SI 200MA 4.9V
D909	CH02001M	DIODE 1SR139-400
D910	2337952S	DIODE RU4YX(LF015-302)
D911	2337952S	DIODE RU4YX(LF015-302)
D912	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)
D913	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)
D914	CH02001M	DIODE 1SR139-400
D915	2338532M	DIODE EG01A (V1)
D917	CH02001M	DIODE 1SR139-400
D918	2337952S	DIODE RU4YX(LF015-302)
D919	2338532M	DIODE EG01A (V1)
D920	CH02001M	DIODE 1SR139-400
D921	2339882M	ZENER DIODE HZS-12(A2) TAPE
D922	CH02001M	DIODE 1SR139-400
D923	2339846M	ZENER HZS6B3 TA
D926	CH01042M	DIODE RK34 (40V)
D927	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)
D928	2344041M	DIODE 1SS254TA/1SS270TA
D929	CH01042M	DIODE RK34 (40V)
D930	CH01042M	DIODE RK34 (40V)
D931	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)
D932	2339852M	ZENER HZS7-A2 TA
D933	2344041M	DIODE 1SS254TA/1SS270TA
D934	CH01042M	DIODE RK34 (40V)
D935	2339892M	DIODE (HZS15-2TA)
D936	2344041M	DIODE 1SS254TA/1SS270TA
D938	2339875M	ZENER HZS11B2 TA
D939	2339836M	ZENER HZS-5 B3
D940	2344041M	DIODE 1SS254TA/1SS270TA
D941	2339892M	DIODE (HZS15-2TA)
D942	2339836M	ZENER HZS-5 B3
D943	CH02001M	DIODE 1SR139-400
D944	CH02001M	DIODE 1SR139-400
D945	2344041M	DIODE 1SS254TA/1SS270TA
D946	2344041M	DIODE 1SS254TA/1SS270TA
D947	2339861M	ZENER HZS-9 A1

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
D948	2344041M	DIODE 1SS254TA/1SS270TA	DH42	2334315M	ZENER DIODE RD33E TAPE (B4)
D949	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)	⚠ DH43	2339802M	ZENER DIODE HZS2B2 TAPE
D950	2339836M	ZENER HZS-5 B3	⚠ DH44	2339839M	ZENER HZS5C3 TAPE
D951	2344041M	DIODE 1SS254TA/1SS270TA	DH47	2344041M	DIODE 1SS254TA/1SS270TA
D952	2344041M	DIODE 1SS254TA/1SS270TA	DH80	2344041M	DIODE 1SS254TA/1SS270TA
D953	2344041M	DIODE 1SS254TA/1SS270TA	DK01	2339551M	DIODE ED14(V1) SI 5MA 45V
D954	2344041M	DIODE 1SS254TA/1SS270TA	DK04	CH02011M	DIODE 1SR153-400
D955	2344041M	DIODE 1SS254TA/1SS270TA	DK05	CH02011M	DIODE 1SR153-400
D956	2339836M	ZENER HZS-5 B3	DK16	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
D957	2344041M	DIODE 1SS254TA/1SS270TA	DK17	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
D958	2339821M	ZENER HZS4A1 TA	DK18	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
D959	2344041M	DIODE 1SS254TA/1SS270TA	DK19	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
D960	2339817M	ZENER HZS3C1 TA	DK20	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DC01	2344041M	DIODE 1SS254TA/1SS270TA	DK21	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DC02	2344041M	DIODE 1SS254TA/1SS270TA	DK22	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DC03	2344041M	DIODE 1SS254TA/1SS270TA	DK23	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DC04	2344041M	DIODE 1SS254TA/1SS270TA	DK24	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DC05	2344041M	DIODE 1SS254TA/1SS270TA	DK25	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DC06	2344041M	DIODE 1SS254TA/1SS270TA	DK26	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DC07	2344041M	DIODE 1SS254TA/1SS270TA	DK27	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DC08	2344041M	DIODE 1SS254TA/1SS270TA	DK30	2331815M	ZENER HZ7-B2
DC09	2344041M	DIODE 1SS254TA/1SS270TA	DK31	2331815M	ZENER HZ7-B2
DC10	2344041M	DIODE 1SS254TA/1SS270TA	DK32	2331815M	ZENER HZ7-B2
DE01	2331849M	ZENER HZ12C3 (TA) SI 500MW	DK33	2331815M	ZENER HZ7-B2
DE02	2335042M	ZENER HZ-22 (2L TP) SI 200MA 400MW	DK34	2331815M	ZENER HZ7-B2
DE03	2331913M	DIODE 1SS83 (TAPE)	DK35	2331815M	ZENER HZ7-B2
DE04	2331913M	DIODE 1SS83 (TAPE)	DK36	2331815M	ZENER HZ7-B2
DE05	2331913M	DIODE 1SS83 (TAPE)	DK37	2331815M	ZENER HZ7-B2
DE06	2331913M	DIODE 1SS83 (TAPE)	DK39	2344041M	DIODE 1SS254TA/1SS270TA
DE17	2344041M	DIODE 1SS254TA/1SS270TA	DK41	2331806M	ZENER DIODE HZ-6 TAPE (B3) SI 500MW
DE18	2344041M	DIODE 1SS254TA/1SS270TA	DK42	2331815M	ZENER HZ7-B2
DF01	2344041M	DIODE 1SS254TA/1SS270TA	DK43	2331806M	ZENER DIODE HZ-6 TAPE (B3) SI 500MW
DF02	2344041M	DIODE 1SS254TA/1SS270TA	DK71	2344041M	DIODE 1SS254TA/1SS270TA
DF03	2344041M	DIODE 1SS254TA/1SS270TA	DK72	2344041M	DIODE 1SS254TA/1SS270TA
DF04	2344041M	DIODE 1SS254TA/1SS270TA	DL01	2331815M	ZENER HZ7-B2
DF05	2338531M	DIODE EG-01C (V) SI 0.5A	DL02	2331815M	ZENER HZ7-B2
DF07	CH00041M	DIODE ES1FV1 (1500V)	DL03	2331815M	ZENER HZ7-B2
DF08	CH00041M	DIODE ES1FV1 (1500V)	DL04	2331815M	ZENER HZ7-B2
DH01	2339839M	ZENER HZS5C3 TAPE	DL05	2331815M	ZENER HZ7-B2
DH08	2344041M	DIODE 1SS254TA/1SS270TA	DL06	2331815M	ZENER HZ7-B2
DH09	2339551M	DIODE ED14(V1) SI 5MA 45V	DL07	2331815M	ZENER HZ7-B2
DH11	2337361F	DIODE RU4D LF-20	DL08	2331815M	ZENER HZ7-B2
DH15	2344041M	DIODE 1SS254TA/1SS270TA	DL10	2344041M	DIODE 1SS254TA/1SS270TA
DH17	CH02001M	DIODE 1SR139-400	DL11	2344041M	DIODE 1SS254TA/1SS270TA
DH20	CH02001M	DIODE 1SR139-400	DL12	2344041M	DIODE 1SS254TA/1SS270TA
DH21	2344041M	DIODE 1SS254TA/1SS270TA	DL13	2344041M	DIODE 1SS254TA/1SS270TA
⚠ DH24	CH00031M	DIODE AU02V1(280V)	DL14	2344041M	DIODE 1SS254TA/1SS270TA
DH25	2339862M	ZENER HZS-9A2 TA	DL15	2344041M	DIODE 1SS254TA/1SS270TA
DH26	2339863M	ZENER HZS9A3 TA	DL16	2344041M	DIODE 1SS254TA/1SS270TA
DH27	2344041M	DIODE 1SS254TA/1SS270TA	DL17	2344041M	DIODE 1SS254TA/1SS270TA
DH28	2339831M	ZENER HZS5 A1 TA SI 400MW 5V	DL20	2331809M	ZENER DIODE HZ-6 TAPE (C3) SI 500MW
DH30	2344041M	DIODE 1SS254TA/1SS270TA	DL21	2331809M	ZENER DIODE HZ-6 TAPE (C3) SI 500MW
⚠ DH31	2335042M	ZENER HZ-22 (2L TP) SI 200MA 400MW	DL22	2331809M	ZENER DIODE HZ-6 TAPE (C3) SI 500MW
DH33	2334305M	ZENER RD30E (B4 T2/TP/TA) SI 5MA 30.51V	DL23	2331809M	ZENER DIODE HZ-6 TAPE (C3) SI 500MW
DH40	2344041M	DIODE 1SS254TA/1SS270TA	DL24	2331809M	ZENER DIODE HZ-6 TAPE (C3) SI 500MW
DH41	2334243M	ZENER RD16E (B2 T2/TP/TA) SI 10MA 16.51V	DL25	2331809M	ZENER DIODE HZ-6 TAPE (C3) SI 500MW

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
DL26	2331809M	ZENER DIODE HZ-6 TAPE (C3) SI 500MW	DP27	2339847M	ZENER HZS6C1 TA
DL27	2331809M	ZENER DIODE HZ-6 TAPE (C3) SI 500MW	DP28	2344041M	DIODE 1SS254TA/1SS270TA
DL28	2331824M	ZENER HZ9B1 TA	DP29	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)
DL30	2331824M	ZENER HZ9B1 TA	DP30	CH02001M	DIODE 1SR139-400
DL31	2331824M	ZENER HZ9B1 TA	DP31	CH00041M	DIODE ES1FV1 (1500V)
DL32	2331824M	ZENER HZ9B1 TA	DP32	CH00041M	DIODE ES1FV1 (1500V)
DL33	2331824M	ZENER HZ9B1 TA	DP33	CH02001M	DIODE 1SR139-400
DL34	2331824M	ZENER HZ9B1 TA	DP34	2344041M	DIODE 1SS254TA/1SS270TA
DL35	2331824M	ZENER HZ9B1 TA	DP35	CH02001M	DIODE 1SR139-400
DL36	2331824M	ZENER HZ9B1 TA	DP36	CH02001M	DIODE 1SR139-400
DL37	2331824M	ZENER HZ9B1 TA	DP37	CH00183R	LIGHT EMITTING DIODE (SLZ-981C-06-T1)
DM01	2344041M	DIODE 1SS254TA/1SS270TA	DS01	2331807M	ZENER DIODE HZ-6 TAPE (C1) SI 500MW 6.1V
DM02	2344041M	DIODE 1SS254TA/1SS270TA	DS02	2331807M	ZENER DIODE HZ-6 TAPE (C1) SI 500MW 6.1V
DM03	CH00231	LED SLH-56VC3F	DS03	2331807M	ZENER DIODE HZ-6 TAPE (C1) SI 500MW 6.1V
DM04	2331849M	ZENER HZ12C3 (TA) SI 500MW	DS04	2331807M	ZENER DIODE HZ-6 TAPE (C1) SI 500MW 6.1V
DM05	2331849M	ZENER HZ12C3 (TA) SI 500MW	DS05	2331807M	ZENER DIODE HZ-6 TAPE (C1) SI 500MW 6.1V
DM07	2331849M	ZENER HZ12C3 (TA) SI 500MW	DS06	2331807M	ZENER DIODE HZ-6 TAPE (C1) SI 500MW 6.1V
DM08	2331849M	ZENER HZ12C3 (TA) SI 500MW	DS07	2331807M	ZENER DIODE HZ-6 TAPE (C1) SI 500MW 6.1V
DM09	2331849M	ZENER HZ12C3 (TA) SI 500MW	DS08	2331807M	ZENER DIODE HZ-6 TAPE (C1) SI 500MW 6.1V
DM10	2331849M	ZENER HZ12C3 (TA) SI 500MW	DS09	2331807M	ZENER DIODE HZ-6 TAPE (C1) SI 500MW 6.1V
DM11	2331849M	ZENER HZ12C3 (TA) SI 500MW	DS10	2331807M	ZENER DIODE HZ-6 TAPE (C1) SI 500MW 6.1V
DN01	2344041M	DIODE 1SS254TA/1SS270TA	DS11	2331849M	ZENER HZ12C3 (TA) SI 500MW
DN02	2344041M	DIODE 1SS254TA/1SS270TA	DS12	2331849M	ZENER HZ12C3 (TA) SI 500MW
DN03	2344041M	DIODE 1SS254TA/1SS270TA	DS19	CH00151M	DIODE DSM1SD2(200V)TAPE
DN04	2344041M	DIODE 1SS254TA/1SS270TA	DS20	CH00151M	DIODE DSM1SD2(200V)TAPE
DN05	2339825M	ZENER DIODE HZS-4 TAPE (B2) SI 400MW 3.9V	DS21	CH00151M	DIODE DSM1SD2(200V)TAPE
DN06	2344041M	DIODE 1SS254TA/1SS270TA	DS22	2344041M	DIODE 1SS254TA/1SS270TA
DN09	2331849M	ZENER HZ12C3 (TA) SI 500MW	DS23	2344041M	DIODE 1SS254TA/1SS270TA
DN11	2344041M	DIODE 1SS254TA/1SS270TA	DS24	2344041M	DIODE 1SS254TA/1SS270TA
DN12	2344041M	DIODE 1SS254TA/1SS270TA	DS25	2344041M	DIODE 1SS254TA/1SS270TA
DN13	2344041M	DIODE 1SS254TA/1SS270TA	DS26	2344041M	DIODE 1SS254TA/1SS270TA
DN14	2344041M	DIODE 1SS254TA/1SS270TA	DS27	2344041M	DIODE 1SS254TA/1SS270TA
DN15	2339836M	ZENER HZS-5 B3	DS28	2344041M	DIODE 1SS254TA/1SS270TA
⚠ DP01	2338313	DIODE RBV-406M (60V) SI 0.1USEC	DS29	2344041M	DIODE 1SS254TA/1SS270TA
DP02	CH02001M	DIODE 1SR139-400	DS30	2344041M	DIODE 1SS254TA/1SS270TA
DP03	CH02011M	DIODE 1SR153-400	DS31	2344041M	DIODE 1SS254TA/1SS270TA
DP04	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V	DS34	2344041M	DIODE 1SS254TA/1SS270TA
DP05	2331844M	ZENER HZ12-B1	DS35	2344041M	DIODE 1SS254TA/1SS270TA
DP07	CH02011M	DIODE 1SR153-400	DS36	2344041M	DIODE 1SS254TA/1SS270TA
DP08	2359312	DIODE RU3C (1000V)	DS37	2344041M	DIODE 1SS254TA/1SS270TA
DP09	2337952S	DIODE RU4YX(LF015-302)	DS38	2344041M	DIODE 1SS254TA/1SS270TA
DP10	2336615	DIODE RU3YX (LF-A1)	DS39	2344041M	DIODE 1SS254TA/1SS270TA
DP11	CH01061F	DIODE RU4AM(600V)	DS40	2344041M	DIODE 1SS254TA/1SS270TA
DP12	2337952S	DIODE RU4YX(LF015-302)	DS41	2344041M	DIODE 1SS254TA/1SS270TA
DP13	2337952S	DIODE RU4YX(LF015-302)	DS42	2344041M	DIODE 1SS254TA/1SS270TA
DP14	2339881M	ZENER HZS12A1 TA	DS43	2344041M	DIODE 1SS254TA/1SS270TA
DP15	2339961M	ZENER HZS30-1 TA	DS44	2344041M	DIODE 1SS254TA/1SS270TA
DP16	2344041M	DIODE 1SS254TA/1SS270TA	DS45	2344041M	DIODE 1SS254TA/1SS270TA
DP17	2339857M	ZENER HZS7C1 SI	DS46	2331771M	ZENER HZ-3A1 TAPE
DP18	2344041M	DIODE 1SS254TA/1SS270TA	DS47	2331771M	ZENER HZ-3A1 TAPE
DP21	2344041M	DIODE 1SS254TA/1SS270TA	DS48	2344041M	DIODE 1SS254TA/1SS270TA
DP22	2344041M	DIODE 1SS254TA/1SS270TA	DS49	2344041M	DIODE 1SS254TA/1SS270TA
DP23	2339827M	ZENER HZS4C1 TA	DS50	2331771M	ZENER HZ-3A1 TAPE
DP24	2344041M	DIODE 1SS254TA/1SS270TA	DS51	2344041M	DIODE 1SS254TA/1SS270TA
DP25	2339816M	ZENER HZS3B3 TAPE	DS52	2331849M	ZENER HZ12C3 (TA) SI 500MW
DP26	2344041M	DIODE 1SS254TA/1SS270TA	DS53	2331779M	ZENER DIODE HZ3C3

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SYMBOL NO.	PART NO.	PART DESCRIPTION
DS55	2344041M	DIODE 1SS254TA/1SS270TA
DS56	2331807M	ZENER DIODE HZ-6 TAPE (C1) SI 500MW 6.1V
DX03	2344041M	DIODE 1SS254TA/1SS270TA
DX05	2344041M	DIODE 1SS254TA/1SS270TA
DX06	2344041M	DIODE 1SS254TA/1SS270TA
DX07	2344041M	DIODE 1SS254TA/1SS270TA
DX08	2344041M	DIODE 1SS254TA/1SS270TA
DX09	2344041M	DIODE 1SS254TA/1SS270TA
DX10	2344041M	DIODE 1SS254TA/1SS270TA
DX11	2331849M	ZENER HZ12C3 (TA) SI 500MW
DX12	2331849M	ZENER HZ12C3 (TA) SI 500MW
DX13	2331849M	ZENER HZ12C3 (TA) SI 500MW
DX15	2344041M	DIODE 1SS254TA/1SS270TA
DX16	2344041M	DIODE 1SS254TA/1SS270TA
DX18	2348212M	ZENER DIODE MTZ-J15B
DZ01	2344041M	DIODE 1SS254TA/1SS270TA
		FUSES, PROTECTORS
⚠ E991	AZ00109M	PROTECTOR CRXT491007
⚠ E992	AZ00109M	PROTECTOR CRXT491007
⚠ E993	AZ00109M	PROTECTOR CRXT491007
⚠ E994	AZ00108M	PROTECTOR(CRXT491005)
⚠ E995	AZ00108M	PROTECTOR(CRXT491005)
EH01	AZ00101M	PROTECTOR(CRXT491.500)
EK01	AZ00108M	PROTECTOR(CRXT491005)
⚠ EP91	AZ00109M	PROTECTOR CRXT491007
⚠ EP92	AZ00107M	PROTECTOR CRXT491004
⚠ EP93	AZ00101M	PROTECTOR(CRXT491.500)
⚠ EP94	AZ00109M	PROTECTOR CRXT491007
⚠ EP95	AZ00109M	PROTECTOR CRXT491007
⚠ EP96	AZ00421M	PROTECTOR 491010T52
⚠ EP97	AZ00421M	PROTECTOR 491010T52
⚠ EP98	AZ00106M	PROTECTOR CRXT491003
⚠ F901	2722359	FUSE AC06A
	COMPOUND COMPONENTS	
EANT	HP00771	ANT SW
HM01	CZ00641	GP1U281Q REMOTE RECEIVER
U201	HC00311	V6-A30FT MAIN TUNER
U202	HC00401	V8-A68CT PIP TUNER
U204	HP00705	KC-301S(3DYC SEP UNIT)
U205	CS00492	FLEX CONVERTER UNIT ASY (HC5612)
⚠ UFPK	AZ00005	FOCUS PACK TYPE MHF116
UKDG	CS00451	HC2151 DIGI CON UNIT ASY
US01	CS00482	DSP UNIT(HC4052) ASY
		INTEGRATED CIRCUITS
I001	CP07165U	IC MN102H51KHT MAIN MICROPROCESSOR
I002	CK32542R	DIGITAL MONOLITHIC IC (M24C16-WMN6T) EEPROM
I003	CK31071R	IC CXA1875AM DAC
I004	CK31071R	IC CXA1875AM DAC
I005	CK31992R	IC BU4053BCF SELECTOR IC
I006	CP06941R	IC PST994I RESET IC
I007	CP05572	IC BA17809T +9V REG
I008	CP05571	IC BA17805 +5V REG
I009	CP05163F	IC SI-3090F +9V REG
I010	CP05162F	IC SI-3050F
I011	CP06581U	IC LF25CV
I012	CP04232	ANALOG MONOLITHIC IC BA033T
I014	CK34051R	IC TC74HCT245AF
I015	2004781	ICL-LA7213
I016	2004781	ICL-LA7213
I201	CK07923U	IC TA1270BF
I202	CK31992R	IC BU4053BCF
I203	2015452R	IC HD74HC04FPEL
I205	CK08521R	ANALOG MONOLITHIC IC (BA7657F-E2)
I207	2004781	ICL-LA7213
I401	CK30941U	IC CXA2069Q AUDIO/VIDEO SELECTOR
I402	CW00022	COMB FILTER (337KNT)
I403	CK07923U	IC TA1270BF
I404	CK08521R	ANALOG MONOLITHIC IC (BA7657F-E2)
I405	CK31992R	IC BU4053BCF
I406	CK32711R	IC BA7609F-E2
I407	CK32711R	IC BA7609F-E2
I408	2004781	ICL-LA7213
I409	2382742R	ICC-SC7S04F
I601	CP06891	IC TDA8174A
I651	2365452	IC NJM2903D
I701	CP06551	IC TA1300AN
⚠ I901	CZ00864	IC STR-F6626(LF1352)
⚠ I902	2000465	IC PS2501-1 (KC/LC)
⚠ I903	2000465	IC PS2501-1 (KC/LC)
⚠ I904	2000465	IC PS2501-1 (KC/LC)
I905	CP03922F	IC SI-8050S
I906	CP03923F	ANALOG MONOLITHIC IC (SI-8090S)
I907	CP03922F	IC SI-8050S
I908	CP03924F	IC SI-8120S
IC01	2004751	IC TA8200AH
IH02	CP07091	IC M62501P
IK01	CP05571	IC BA17805
IK02	CP01631R	ICL-PST9142
IK03	CP05571	IC BA17805
IK04	CZ00431	HYBRID IC (STK392-110)
IK05	CZ00431	HYBRID IC (STK392-110)
⚠ IP01	CZ00865	STR-F6629B(LF1351)
IP02	CP05141	ANALOG MONOLITHIC IC (PQ6RD083)
⚠ IP03	2381349	HYBRID IC (SE120N:+B CONT.)
⚠ IP04	2000465	IC PS2501-1 (KC/LC)
IS01	CK31071R	IC CXA1875AM
IS02	CK33801R	IC NJM2068F
IS03	CK33691R	IC TDA7309
IS04	CK33801R	IC NJM2068F
IS05	CP06901U	IC TDA7317
IS06	CK33801R	IC NJM2068F
IS07	CK33801R	IC NJM2068F
IS08	CK33691R	IC TDA7309
IS09	CK33801R	IC NJM2068F
IS10	CP06901U	IC TDA7317
IS11	CK33691R	IC TDA7309
IS12	CK33801R	IC NJM2068F
IS13	CP05162F	IC SI-3050F
IS15	2004751	IC TA8200AH

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SYMBOL NO.	PART NO.	PART DESCRIPTION
IS16	2004751	IC TA8200AH
IS17	CK32011R	IC TC74HC151AF
IS18	CK34031R	IC TC74HCU04AF
IS19	CP02601	AN5285K
IX01	CP05662U	IC TA1298AN
IX02	CK32711R	IC BA7609F-E2
		COILS
L001	BH00697R	FILTER COIL 100UH
L002	BH00697R	FILTER COIL 100UH
L003	BJ00402	30MHZ BAND PASS LC FILTER 87F2
L004	2123781R	FILTER COIL 101K
L005	BH00697R	FILTER COIL 100UH
L006	BH00697R	FILTER COIL 100UH
L007	BH00697R	FILTER COIL 100UH
L008	BH00697R	FILTER COIL 100UH
L201	BH00697R	FILTER COIL 100UH
L202	2123781R	FILTER COIL 101K
L203	BH00697R	FILTER COIL 100UH
L204	BH00697R	FILTER COIL 100UH
L205	2123781R	FILTER COIL 101K
L206	BH00697R	FILTER COIL 100UH
L207	2123112M	COIL-AXIAL 47UH-K
L208	BH00697R	FILTER COIL 100UH
L209	BH00697R	FILTER COIL 100UH
L210	2123781R	FILTER COIL 101K
L211	BH00697R	FILTER COIL 100UH
L212	2123781R	FILTER COIL 101K
L214	BH00697R	FILTER COIL 100UH
L215	BH00697R	FILTER COIL 100UH
L216	2123781R	FILTER COIL 101K
L217	2123781R	FILTER COIL 101K
L295	2123411M	AXIAL COIL 1.0UH-K TYPE LAL02
L401	BH00697R	FILTER COIL 100UH
L402	BH00697R	FILTER COIL 100UH
L403	BH00697R	FILTER COIL 100UH
L404	BH00697R	FILTER COIL 100UH
L405	BH00697R	FILTER COIL 100UH
L406	BH00697R	FILTER COIL 100UH
L407	BH00697R	FILTER COIL 100UH
L408	BH00697R	FILTER COIL 100UH
L409	BH00697R	FILTER COIL 100UH
L410	BH00697R	FILTER COIL 100UH
L602	BH00206R	FILTER COIL 27UH
L651	BZ00841	CHOKE COIL 150UH SL1720
L652	BH01301	HC-331K-1
L661	2123469M	FERRITE BEADS CORE 2.3UH
L662	2123469M	FERRITE BEADS CORE 2.3UH
L701	BH00697R	FILTER COIL 100UH
L751	BH00217R	FILTER COIL 180UH
L752	BZ02582	H. LINEARITY COIL 3UH
L753	BZ02583	LINEARITY COIL 3UH
L758	BH00228R	COIL 332K-1T7608A
L771	2123468M	FERRITE BEADS CORE LEAD 0.8MH
L772	2123468M	FERRITE BEADS CORE LEAD 0.8MH
L773	2123468M	FERRITE BEADS CORE LEAD 0.8MH
L801	BH00684R	COIL 10UH
L802	BH00684R	COIL 10UH
L803	BH00677R	COIL 3.3UH
L851	BH00684R	COIL 10UH
L852	BH00684R	COIL 10UH
L853	BH00677R	COIL 3.3UH
L8A1	BH00684R	COIL 10UH
L8A2	BH00683R	COIL 8.2UH(FLR50)
L8A3	BH00675R	COIL 2.2UH
L8A6	BH00697R	FILTER COIL 100UH
⚠ L901	BZ01831	LX-LINE FILTER(382)
⚠ L902	BZ01841	LX-LINE FILTER(102)
⚠ L903	BZ01831	LX-LINE FILTER(382)
⚠ L904	BZ01841	LX-LINE FILTER(102)
⚠ L905	BZ01841	LX-LINE FILTER(102)
L906	2123469M	FERRITE BEADS CORE 2.3UH
L907	2123469M	FERRITE BEADS CORE 2.3UH
L908	2123468M	FERRITE BEADS CORE LEAD 0.8MH
L909	2123468M	FERRITE BEADS CORE LEAD 0.8MH
L910	2123469M	FERRITE BEADS CORE 2.3UH
L911	2123469M	FERRITE BEADS CORE 2.3UH
L912	BH00201R	FILTER COIL 10UH
L913	BH00201R	FILTER COIL 10UH
L914	BH00201R	FILTER COIL 10UH
L915	BV00891	PL-CHOPPER COIL 200UH/3A
L916	BH00201R	FILTER COIL 10UH
L917	BH00201R	FILTER COIL 10UH
L918	BV00901	PL-CHOPPER COIL 200UH/2A
L919	BH00207R	FILTER COIL 33UH
L920	BV00891	PL-CHOPPER COIL 200UH/3A
L921	BH00207R	FILTER COIL 33UH
L922	BH00207R	FILTER COIL 33UH
L923	BV00901	PL-CHOPPER COIL 200UH/2A
L924	BH00212R	FILTER COIL 68UH
L925	BH00212R	FILTER COIL 68UH
L926	BH00209R	FILTER COIL 47UH
L927	BH00207R	FILTER COIL 33UH
L928	BH00211R	FILTER COIL 56UH
LC01	2122652M	FERRITE CORE
LC02	2122652M	FERRITE CORE
LE01	BH00214R	FILTER COIL 100UH
LE02	BH00214R	FILTER COIL 100UH
LE03	2123468M	FERRITE BEADS CORE LEAD 0.8MH
LF01	BH00229R	COIL 472K-1T7608A
⚠ LH02	BH00214R	FILTER COIL 100UH
LH03	BH00217R	FILTER COIL 180UH
LK01	2123468M	FERRITE BEADS CORE LEAD 0.8MH
LK02	2123468M	FERRITE BEADS CORE LEAD 0.8MH
LK03	2123468M	FERRITE BEADS CORE LEAD 0.8MH
LK04	2123468M	FERRITE BEADS CORE LEAD 0.8MH
LK05	2123468M	FERRITE BEADS CORE LEAD 0.8MH
LK06	2123468M	FERRITE BEADS CORE LEAD 0.8MH
LK07	2123468M	FERRITE BEADS CORE LEAD 0.8MH
LK08	2123468M	FERRITE BEADS CORE LEAD 0.8MH
LK09	2123469M	FERRITE BEADS CORE 2.3UH
LK10	2123469M	FERRITE BEADS CORE 2.3UH

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
LK11	2123469M	FERRITE BEADS CORE 2.3UH	Q019	2325781R	2SA1037KT146(Q/R TYPE)
LL01	BH00697R	FILTER COIL 100UH	Q021	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LP01	2123469M	FERRITE BEADS CORE 2.3UH	Q022	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LP02	2123469M	FERRITE BEADS CORE 2.3UH	Q023	2325781R	2SA1037KT146(Q/R TYPE)
LP03	2123468M	FERRITE BEADS CORE LEAD 0.8MH	Q024	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LP04	2123468M	FERRITE BEADS CORE LEAD 0.8MH	Q029	2312171	TRS. 2SC3852
LP05	BH00214R	FILTER COIL 100UH	Q030	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LP06	BH00214R	FILTER COIL 100UH	Q031	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LP07	BH00212R	FILTER COIL 68UH	Q034	2325781R	2SA1037KT146(Q/R TYPE)
LP08	BH00212R	FILTER COIL 68UH	Q035	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LP09	BH00212R	FILTER COIL 68UH	Q036	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LP10	BH00206R	FILTER COIL 27UH	Q037	2325781R	2SA1037KT146(Q/R TYPE)
LP11	BH00209R	FILTER COIL 47UH	Q038	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LP12	BH00217R	FILTER COIL 180UH	Q039	2325781R	2SA1037KT146(Q/R TYPE)
LP13	BH00206R	FILTER COIL 27UH	Q040	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LP14	BH00209R	FILTER COIL 47UH	Q046	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LP15	2124362	DC.NOISE FILTER	Q201	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LP16	2124362	DC.NOISE FILTER	Q202	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LS08	BH00697R	FILTER COIL 100UH	Q203	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LS09	BH00697R	FILTER COIL 100UH	Q204	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LS10	BH00697R	FILTER COIL 100UH	Q205	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LS11	BH00697R	FILTER COIL 100UH	Q206	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LS12	BH00697R	FILTER COIL 100UH	Q207	2320647M	TRS. 2SC1213 (C/D)
LS13	BH00697R	FILTER COIL 100UH	Q208	2325781R	2SA1037KT146(Q/R TYPE)
LS14	BH01341M	COIL FERRITE BEADS 0.8UH	Q209	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LS18	BH01341M	COIL FERRITE BEADS 0.8UH	Q210	2325781R	2SA1037KT146(Q/R TYPE)
LS19	BH01341M	COIL FERRITE BEADS 0.8UH	Q211	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LS22	BH00697R	FILTER COIL 100UH	Q212	CA11264R	TRS.-CHIP DTC114EKA
LS23	BH00697R	FILTER COIL 100UH	Q213	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LS24	2123415M	LAL AXIAL COIL 2.2UH-K	Q214	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LX01	BH00697R	FILTER COIL 100UH	Q215	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LX03	BH00697R	FILTER COIL 100UH	Q216	2325781R	2SA1037KT146(Q/R TYPE)
LX04	BH00697R	FILTER COIL 100UH	Q217	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LX05	BH00697R	FILTER COIL 100UH	Q220	2325781R	2SA1037KT146(Q/R TYPE)
LX06	BH00697R	FILTER COIL 100UH	Q221	2325781R	2SA1037KT146(Q/R TYPE)
LX07	BH00697R	FILTER COIL 100UH	Q222	2325781R	2SA1037KT146(Q/R TYPE)
LX08	BH00697R	FILTER COIL 100UH	Q223	2325781R	2SA1037KT146(Q/R TYPE)
LX09	BH00697R	FILTER COIL 100UH	Q224	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
LX16	BH00697R	FILTER COIL 100UH	Q226	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
			Q227	2325781R	2SA1037KT146(Q/R TYPE)
		TRANSISTORS	Q228	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q001	2325781R	2SA1037KT146(Q/R TYPE)	Q229	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q002	2320647M	TRS. 2SC1213 (C/D)	Q230	2325781R	2SA1037KT146(Q/R TYPE)
Q003	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q231	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q004	2320647M	TRS. 2SC1213 (C/D)	Q232	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q005	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q233	2325781R	2SA1037KT146(Q/R TYPE)
Q006	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q234	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q007	2325781R	2SA1037KT146(Q/R TYPE)	Q235	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q008	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q236	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q009	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q237	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q010	2325781R	2SA1037KT146(Q/R TYPE)	Q239	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q014	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q240	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q015	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q401	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q016	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q402	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q017	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q403	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q018	2325781R	2SA1037KT146(Q/R TYPE)	Q404	2325781R	2SA1037KT146(Q/R TYPE)

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
Q405	2325781R	2SA1037KT146(Q/R TYPE)	Q754	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q406	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q755	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q407	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	⚠ Q777	CF02581F	TRS 2SC5516 DEFLECTION OUTPUT
Q408	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q801	2327471F	TRS.2SC3950 (HIT D/E)
Q409	2320647M	TRS. 2SC1213 (C/D)	Q802	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q410	2320647M	TRS. 2SC1213 (C/D)	Q803	2312372F	TRS-2SC3942
Q411	2320647M	TRS. 2SC1213 (C/D)	Q804	2312773F	TRS-2SA1546(2)M/L
Q412	2325781R	2SA1037KT146(Q/R TYPE)	Q805	2312372F	TRS-2SC3942
Q413	2325781R	2SA1037KT146(Q/R TYPE)	Q812	2312371	TRS. 2SC3942
Q414	2325781R	2SA1037KT146(Q/R TYPE)	Q851	2327471F	TRS.2SC3950 (HIT D/E)
Q415	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q852	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q416	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q853	2312372F	TRS-2SC3942
Q417	2325781R	2SA1037KT146(Q/R TYPE)	Q854	2312773F	TRS-2SA1546(2)M/L
Q418	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q855	2312372F	TRS-2SC3942
Q419	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q858	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q420	2325781R	2SA1037KT146(Q/R TYPE)	Q859	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q421	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q862	2312371	TRS. 2SC3942
Q422	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q8A1	2327471F	TRS.2SC3950 (HIT D/E)
Q423	2325781R	2SA1037KT146(Q/R TYPE)	Q8A2	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q424	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q8A3	2312372F	TRS-2SC3942
Q425	2325781R	2SA1037KT146(Q/R TYPE)	Q8A4	2312773F	TRS-2SA1546(2)M/L
Q426	2325781R	2SA1037KT146(Q/R TYPE)	Q8A5	2312372F	TRS-2SC3942
Q427	2325781R	2SA1037KT146(Q/R TYPE)	Q8A6	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q428	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q8A7	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q431	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q8C1	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q433	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q8C2	2312371	TRS. 2SC3942
Q434	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	⚠ Q901	2323782R	THYRISTOR 03P2M
Q435	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q902	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q436	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q903	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q437	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q904	2312171	TRS. 2SC3852
Q438	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	⚠ Q905	2323782R	THYRISTOR 03P2M
Q439	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q906	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q440	2325781R	2SA1037KT146(Q/R TYPE)	Q907	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q441	2325781R	2SA1037KT146(Q/R TYPE)	Q908	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q442	2325781R	2SA1037KT146(Q/R TYPE)	Q909	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q443	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q910	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q444	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q911	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q445	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	Q912	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q446	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	QC01	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q601	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QC02	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q608	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QC03	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q609	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QC04	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q612	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QE01	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q613	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QE02	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q652	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QE03	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q653	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QE04	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q654	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QE05	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q655	2323522M	TRS. 2SD789 (E TYPE)	QE07	CF01881R	TRS. 2SA1283 E
Q656	2323531R	TRS. 2SB740(B/C TYPE)	QE08	CF01871R	TRS. 2SC3243 E
Q657	2312282	TRS 2SC4160(M)	QE10	CF01871R	TRS. 2SC3243 E
Q701	2326873R	TRS. DTC144ES TP	QE11	CF01881R	TRS. 2SA1283 E
Q702	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QE22	2326821R	TRANSISTOR 2SA1371 (E/F)
Q703	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QE23	2315381	TRS. 2SA1837
Q704	2326216	TRS. 2SC3116 (S/T)	QE24	2315381	TRS. 2SA1837
Q705	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QE25	2315391	TRS. 2SC4793
Q751	2326216	TRS. 2SC3116 (S/T)	QE26	2315391	TRS. 2SC4793

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QE35	2326811R	TRANSISTOR 2SC3468 (E/F)	QS12	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QE36	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QS14	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QF01	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QS16	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QF02	2320663M	TRS. 2SC1213A (C)	QS17	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QF03	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QS18	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QF04	2320663M	TRS. 2SC1213A (C)	QS20	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QF06	CF00131	TRS. 2SC5022 (1500V)	QS21	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QF07	CF00131	TRS. 2SC5022 (1500V)	QS22	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QF09	CF00821F	TRS. 2SC4686A 1200V	QS23	CA11262R	TRS.-CHIP DTC144EKA
⚠ QH01	CF02541	TRS GT8Q101 H.V. OUTPUT	QS24	CA11252R	TRS.CHIP DTA144EKA
QH07	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QS25	2324085	TRS-2SK105(C)(H)
QH08	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QS26	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QH09	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QS27	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QH10	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX01	2325781R	2SA1037KT146(Q/R TYPE)
QH80	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX02	2325781R	2SA1037KT146(Q/R TYPE)
QK01	2312171	TRS. 2SC3852	QX03	2325781R	2SA1037KT146(Q/R TYPE)
QK02	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX07	2325781R	2SA1037KT146(Q/R TYPE)
QK03	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX08	2325781R	2SA1037KT146(Q/R TYPE)
QK06	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QX09	2325781R	2SA1037KT146(Q/R TYPE)
QK07	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QX13	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QK08	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QX15	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QK71	2320663M	TRS. 2SC1213A (C)	QX16	2325781R	2SA1037KT146(Q/R TYPE)
QL10	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX17	2325781R	2SA1037KT146(Q/R TYPE)
QL11	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX18	2325781R	2SA1037KT146(Q/R TYPE)
QL12	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX21	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QL13	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX22	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QL14	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX23	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QL15	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX24	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QL16	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX25	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QL17	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX26	2325781R	2SA1037KT146(Q/R TYPE)
QM01	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QX27	2325781R	2SA1037KT146(Q/R TYPE)
QM02	2312992	PHOTO TRS. RPT-38PT3F (M)	QX31	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QM03	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QX32	2325781R	2SA1037KT146(Q/R TYPE)
QM04	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QX36	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QM05	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QX37	2325781R	2SA1037KT146(Q/R TYPE)
QN01	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QX41	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QN02	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QX42	2325781R	2SA1037KT146(Q/R TYPE)
QN03	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QX46	2320647M	TRS. 2SC1213 (C/D)
QN04	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	QX52	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QN05	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QX53	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QN07	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QX54	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QN08	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW	QX55	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
⚠ QP01	2323782R	THYRISTOR 03P2M			
QP02	2321112M	TRS.2SA778AK(02 TAPE)			**RESISTORS**
QP03	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW	R001	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
QP04	2327461	TRS.2SA1488 (Y/G)	R002	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
QS01	2324085	TRS-2SK105(C)(H)	R003	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
QS02	CA11252R	TRS.CHIP DTA144EKA	R004	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
QS03	CA11262R	TRS.-CHIP DTC144EKA	R005	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
QS05	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	R006	0195250R	RES 2125 CHIP JAMPER WIRE
QS06	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	R007	0195929R	RES 2125 CHIP 1/16W 15K-J TAPE
QS07	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	R008	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
QS08	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	R009	0195943R	RES.2125 CHIP 1/16W 56K-J TAPE
QS09	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	R010	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
QS10	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	R011	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
QS11	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)	R013	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R014	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R079	0195918R	RES 2125 CHIP 1/16W 5.6K-J TAPE
R015	0195250R	RES 2125 CHIP JAMPER WIRE	R080	0195918R	RES 2125 CHIP 1/16W 5.6K-J TAPE
R016	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R081	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R017	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R082	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R018	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R083	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R019	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R084	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R020	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R085	0195912R	RES 2125 CHIP 1/16W 3.3K-J TAPE
R021	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	R086	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R022	0196858R	RES 2125CHIP 1/10W 56-F TAPE	R087	0195879R	RES 2125 CHIP 1/16W 150-J TAPE
R023	0196900R	RES 2125CHIP 1/16W3.3K-F TAPE	R088	0195912R	RES 2125 CHIP 1/16W 3.3K-J TAPE
R024	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R089	0195881R	RES 2125 CHIP 1/16W 180-J TAPE
R025	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	R090	0195881R	RES 2125 CHIP 1/16W 180-J TAPE
R026	0195250R	RES 2125 CHIP JAMPER WIRE	R091	0195881R	RES 2125 CHIP 1/16W 180-J TAPE
R028	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	R092	0195868R	RES.MINI-CHIP RMC1/10 56-J TAPE
R029	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R093	0195868R	RES.MINI-CHIP RMC1/10 56-J TAPE
R030	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R094	0195868R	RES.MINI-CHIP RMC1/10 56-J TAPE
R031	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R095	0195893R	RES 2125 CHIP 1/16W 560-J TAPE
R032	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R096	0195893R	RES 2125 CHIP 1/16W 560-J TAPE
R035	0700027M	RES.-CARBON FLM 1/16W 100-JB	R097	0195902R	RES 2125 CHIP 1/16W 1.2K-J TAPE
R036	0700027M	RES.-CARBON FLM 1/16W 100-JB	R098	0195933R	RES.2125 CHIP 1/16W 22K-J TAPE
R037	0195918R	RES 2125 CHIP 1/16W 5.6K-J TAPE	R099	0195933R	RES.2125 CHIP 1/16W 22K-J TAPE
R038	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R0A2	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R039	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	R0A3	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
R040	0195918R	RES 2125 CHIP 1/16W 5.6K-J TAPE	R0A4	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R041	0195927R	RES 2125 CHIP 1/16W 12K-J TAPE	R0A5	0195960R	RES.2125 CHIP 1/16W 270K-J TAPE
R042	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE	R0A6	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
R043	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R0A7	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R044	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R0A8	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
R045	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R0A9	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R046	0195943R	RES.2125 CHIP 1/16W 56K-J TAPE	R0C0	0195960R	RES.2125 CHIP 1/16W 270K-J TAPE
R047	0195947R	RES.2125 CHIP 1/10W 82K-J TAPE	R0C1	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
R048	0195881R	RES 2125 CHIP 1/16W 180-J TAPE	R0C2	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R049	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	R0C5	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R050	0195933R	RES.2125 CHIP 1/16W 22K-J TAPE	R0C6	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R051	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE	R0C7	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R052	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R0C8	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE
R053	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R100	0700027M	RES.-CARBON FLM 1/16W 100-JB
R056	0195250R	RES 2125 CHIP JAMPER WIRE	R101	0700027M	RES.-CARBON FLM 1/16W 100-JB
R057	0700027M	RES.-CARBON FLM 1/16W 100-JB	R102	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R058	0700027M	RES.-CARBON FLM 1/16W 100-JB	R103	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
R059	0700027M	RES.-CARBON FLM 1/16W 100-JB	R104	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R060	0195918R	RES 2125 CHIP 1/16W 5.6K-J TAPE	R105	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R061	0195918R	RES 2125 CHIP 1/16W 5.6K-J TAPE	R106	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R064	0700027M	RES.-CARBON FLM 1/16W 100-JB	R107	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R065	0195918R	RES 2125 CHIP 1/16W 5.6K-J TAPE	R109	0195916R	RES.2125 CHIP 1/16W 4.7K-J TAPE
R066	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R110	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
R069	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R111	0195937R	RES.2125 CHIP 1/16W 33K-J TAPE
R070	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R112	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R071	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R113	0195250R	RES 2125 CHIP JAMPER WIRE
R072	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R114	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R073	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R115	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R074	0195975R	RMC73S-2A105JR	R116	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R075	0195918R	RES 2125 CHIP 1/16W 5.6K-J TAPE	R117	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R076	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R120	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R077	0195918R	RES 2125 CHIP 1/16W 5.6K-J TAPE	R121	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R078	0700032M	RES.-CARBON FLM 1/16W 220-JB	R122	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R125	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R188	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R126	0195956R	RES.CHIP 1/16W 180K-J TAPE	R189	0114149M	RESISTOR-CARBON FILM SRD 1/4 PF 560-J
R127	0195956R	RES.CHIP 1/16W 180K-J TAPE	R190	0195916R	RES.2125 CHIP 1/16W 4.7K-J TAPE
R128	0700032M	RES.-CARBON FLM 1/16W 220-JB	R191	0195933R	RES.2125 CHIP 1/16W 22K-J TAPE
R129	0700027M	RES.-CARBON FLM 1/16W 100-JB	R192	0195927R	RES 2125 CHIP 1/16W 12K-J TAPE
R130	0195918R	RES 2125 CHIP 1/16W 5.6K-J TAPE	R193	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R131	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R194	0700063M	RES.-CARBON FLM 1/16W 47K-JB
R132	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R195	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R133	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R196	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R134	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R197	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R135	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R198	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R136	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R199	0700027M	RES.-CARBON FLM 1/16W 100-JB
R137	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R1C1	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R138	0700032M	RES.-CARBON FLM 1/16W 220-JB	R1C2	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
R140	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R1C3	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R141	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R1C4	0195887R	RES 2125 CHIP 1/16W 330-J TAPE
R142	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R1C5	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R143	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE	R1C6	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R144	0195918R	RES 2125 CHIP 1/16W 5.6K-J TAPE	R1C7	0700027M	RES.-CARBON FLM 1/16W 100-JB
R145	0195960R	RES.2125 CHIP 1/16W 270K-J TAPE	R1C8	0700027M	RES.-CARBON FLM 1/16W 100-JB
R146	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1C9	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R147	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1E1	0195893R	RES 2125 CHIP 1/16W 560-J TAPE
R148	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1E2	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R149	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R1E3	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R150	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R1E4	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R151	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R1E5	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R152	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R1E6	0700027M	RES.-CARBON FLM 1/16W 100-JB
R153	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1E7	0700027M	RES.-CARBON FLM 1/16W 100-JB
R154	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1E8	0700027M	RES.-CARBON FLM 1/16W 100-JB
R155	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1E9	0700027M	RES.-CARBON FLM 1/16W 100-JB
R156	0700027M	RES.-CARBON FLM 1/16W 100-JB	R1F1	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R157	0700027M	RES.-CARBON FLM 1/16W 100-JB	R201	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R158	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R202	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R159	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R203	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R160	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R204	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R162	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R205	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R163	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R206	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R166	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R207	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R167	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R208	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R168	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R209	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R169	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R210	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R170	0700027M	RES.-CARBON FLM 1/16W 100-JB	R212	0195895R	RES.2125 CHIP 1/10W 680-J TAPE
R171	0195960R	RES.2125 CHIP 1/16W 270K-J TAPE	R213	0196888R	RES 2125CHIP 1/10W1.0K-F TAPE
R172	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R216	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R173	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE	R217	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R174	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R219	0700038M	RES.-CARBON FLM 1/16W 680-JB
R175	0195918R	RES 2125 CHIP 1/16W 5.6K-J TAPE	R220	0196888R	RES 2125CHIP 1/10W1.0K-F TAPE
R176	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	R221	0195250R	RES 2125 CHIP JAMPER WIRE
R177	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R223	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R178	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R224	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R179	0195937R	RES.2125 CHIP 1/16W 33K-J TAPE	R225	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
R180	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R226	0195933R	RES.2125 CHIP 1/16W 22K-J TAPE
R181	0195912R	RES 2125 CHIP 1/16W 3.3K-J TAPE	R227	0195939R	RES.2125 CHIP 1/16W 39K-J TAPE
R184	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R228	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
R186	0700027M	RES.-CARBON FLM 1/16W 100-JB	R230	0195916R	RES.2125 CHIP 1/16W 4.7K-J TAPE
R187	0195893R	RES 2125 CHIP 1/16W 560-J TAPE	R231	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE

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R232	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R312	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R233	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R313	0195895R	RES.2125 CHIP 1/10W 680-J TAPE
R234	0195916R	RES.2125 CHIP 1/16W 4.7K-J TAPE	R314	0196890R	RES 2125CHIP 1/10W1.2K-F TAPE
R235	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	R315	0196892R	RES 2125CHIP 1/16W1.5K-F TAPE
R236	0195939R	RES.2125 CHIP 1/16W 39K-J TAPE	R316	0195895R	RES.2125 CHIP 1/10W 680-J TAPE
R237	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	R317	0195864R	RESISTOR MINI-CHIP RMC1/10 39-J TAPE
R238	0195922R	RES 2125 CHIP 1/16W 8.2K-J TAPE	R318	0195943R	RES.2125 CHIP 1/16W 56K-J TAPE
R243	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R319	0195939R	RES.2125 CHIP 1/16W 39K-J TAPE
R244	0195891R	RES 2125 CHIP 1/16W 470-J TAPE	R320	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R245	0195889R	RES.2125 CHIP 1/10W 390-J TAPE	R321	0195895R	RES.2125 CHIP 1/10W 680-J TAPE
R246	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE	R322	0196890R	RES 2125CHIP 1/10W1.2K-F TAPE
R247	0195927R	RES 2125 CHIP 1/16W 12K-J TAPE	R323	0196892R	RES 2125CHIP 1/16W1.5K-F TAPE
R248	0195929R	RES 2125 CHIP 1/16W 15K-J TAPE	R324	0195895R	RES.2125 CHIP 1/10W 680-J TAPE
R249	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R325	0195864R	RESISTOR MINI-CHIP RMC1/10 39-J TAPE
R250	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R326	0195943R	RES.2125 CHIP 1/16W 56K-J TAPE
R251	0195931R	RES 2125 CHIP 1/16W 18K-J TAPE	R327	0195939R	RES.2125 CHIP 1/16W 39K-J TAPE
R252	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R328	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R253	0195922R	RES 2125 CHIP 1/16W 8.2K-J TAPE	R329	0195895R	RES.2125 CHIP 1/10W 680-J TAPE
R254	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R330	0196890R	RES 2125CHIP 1/10W1.2K-F TAPE
R255	0196872R	RES 2125CHIP 1/10W 220-F TAPE	R331	0196892R	RES 2125CHIP 1/16W1.5K-F TAPE
R256	0196872R	RES 2125CHIP 1/10W 220-F TAPE	R332	0195895R	RES.2125 CHIP 1/10W 680-J TAPE
R257	0196880R	RES 2125CHIP 1/10W 470-F TAPE	R333	0195864R	RESISTOR MINI-CHIP RMC1/10 39-J TAPE
R258	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R334	0100059M	RES.-CARBON FLM 1/8W 560-JB
R259	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R335	0100059M	RES.-CARBON FLM 1/8W 560-JB
R268	0195888R	RES.2125 CHIP 1/10W 360-J TAPE	R337	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R269	0195911R	RES.2125 CHIP 1/16W 3.0K-J TAPE	R338	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R270	0195936R	RES.2125 CHIP 1/16W 30K-J TAPE	R339	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R271	0195250R	RES 2125 CHIP JAMPER WIRE	R340	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R273	0195250R	RES 2125 CHIP JAMPER WIRE	R341	0195914R	RES 2125 CHIP 1/16W 3.9K-J TAPE
R274	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R342	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
R275	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R343	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R276	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R344	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R277	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R345	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R278	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	R346	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R279	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	R347	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R280	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R348	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R281	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R350	0196888R	RES 2125CHIP 1/10W1.0K-F TAPE
R282	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R351	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R283	0700027M	RES.-CARBON FLM 1/16W 100-JB	R354	0700027M	RES.-CARBON FLM 1/16W 100-JB
R284	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R355	0196888R	RES 2125CHIP 1/10W1.0K-F TAPE
R286	0195897R	RES 2125 CHIP 1/16W 820-J TAPE	R356	0195866R	RES 2125 CHIP 1/16W 47J TAPE
R292	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	R357	0195956R	RES.CHIP 1/16W 180K-J TAPE
R293	0700027M	RES.-CARBON FLM 1/16W 100-JB	R358	0195883R	RES 2125 CHIP 1/16W 220-J TAPE
R294	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R360	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R295	0700027M	RES.-CARBON FLM 1/16W 100-JB	R361	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R296	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	R362	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R297	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE	R367	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R298	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	R371	0195250R	RES 2125 CHIP JAMPER WIRE
R299	0195250R	RES 2125 CHIP JAMPER WIRE	R372	0195250R	RES 2125 CHIP JAMPER WIRE
R301	0195250R	RES 2125 CHIP JAMPER WIRE	R373	0195250R	RES 2125 CHIP JAMPER WIRE
R306	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R401	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R307	0700027M	RES.-CARBON FLM 1/16W 100-JB	R402	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R308	0195966R	RES 2125 CHIP 1/16W 470KJ TAPE	R403	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R309	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R404	0195891R	RES 2125 CHIP 1/16W 470-J TAPE
R310	0195943R	RES.2125 CHIP 1/16W 56K-J TAPE	R404	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
R311	0195939R	RES.2125 CHIP 1/16W 39K-J TAPE	R405	0195891R	RES 2125 CHIP 1/16W 470-J TAPE

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R405	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE	R464	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R406	0195891R	RES 2125 CHIP 1/16W 470-J TAPE	R465	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R406	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE	R466	0196882R	RES 2125CHIP 1/10W 560-F TAPE
R407	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R467	0196882R	RES 2125CHIP 1/10W 560-F TAPE
R408	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R468	0196882R	RES 2125CHIP 1/10W 560-F TAPE
R409	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R469	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R410	0196880R	RES 2125CHIP 1/10W 470-F TAPE	R470	0196882R	RES 2125CHIP 1/10W 560-F TAPE
R411	0196880R	RES 2125CHIP 1/10W 470-F TAPE	R471	0196882R	RES 2125CHIP 1/10W 560-F TAPE
R412	0196880R	RES 2125CHIP 1/10W 470-F TAPE	R472	0196882R	RES 2125CHIP 1/10W 560-F TAPE
R413	0196872R	RES 2125CHIP 1/10W 220-F TAPE	R473	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R414	0196872R	RES 2125CHIP 1/10W 220-F TAPE	R474	0196882R	RES 2125CHIP 1/10W 560-F TAPE
R415	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R475	0196882R	RES 2125CHIP 1/10W 560-F TAPE
R416	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R476	0196882R	RES 2125CHIP 1/10W 560-F TAPE
R417	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R477	0196860R	RES 2125CHIP 1/10W 68-F TAPE
R418	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R478	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R419	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R479	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R420	0196904R	RES 2125CHIP 1/16W4.7K-F TAPE	R480	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE
R421	0196898R	RES 2125CHIP 1/16W2.7K-F TAPE	R481	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE
R422	0196900R	RES 2125CHIP 1/16W3.3K-F TAPE	R482	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE
R425	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R483	0196860R	RES 2125CHIP 1/10W 68-F TAPE
R426	0196906R	RES 2125CHIP 1/16W5.6K-F TAPE	R484	0196860R	RES 2125CHIP 1/10W 68-F TAPE
R427	0196906R	RES 2125CHIP 1/16W5.6K-F TAPE	R485	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE
R428	0700027M	RES.-CARBON FLM 1/16W 100-JB	R486	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE
R431	0195250R	RES 2125 CHIP JAMPER WIRE	R489	0195250R	RES 2125 CHIP JAMPER WIRE
R432	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R490	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R433	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R491	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R434	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R492	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R435	0196906R	RES 2125CHIP 1/16W5.6K-F TAPE	R493	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R436	0196906R	RES 2125CHIP 1/16W5.6K-F TAPE	R494	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R437	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R495	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R438	0196946R	RES 2125CHIP 1/16W270K-F TAPE	R496	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R439	0196946R	RES 2125CHIP 1/16W270K-F TAPE	R497	0196898R	RES 2125CHIP 1/16W2.7K-F TAPE
R440	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R498	0196898R	RES 2125CHIP 1/16W2.7K-F TAPE
R441	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R499	0196898R	RES 2125CHIP 1/16W2.7K-F TAPE
R442	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R500	0196923R	RES 2125CHIP 1/16W 30K-F TAPE
R443	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R501	0196899R	RES 2125CHIP 1/16W3.0K-F TAPE
R444	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R502	0195888R	RES.2125 CHIP 1/10W 360-J TAPE
R445	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R506	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R446	0196906R	RES 2125CHIP 1/16W5.6K-F TAPE	R507	0195883R	RES 2125 CHIP 1/16W 220-J TAPE
R447	0196906R	RES 2125CHIP 1/16W5.6K-F TAPE	R509	0196952R	RES 2125CHIP 1/16W470K-F TAPE
R448	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R510	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R449	0196946R	RES 2125CHIP 1/16W270K-F TAPE	R511	0196930R	RES 2125CHIP 1/16W 56K-F TAPE
R450	0196946R	RES 2125CHIP 1/16W270K-F TAPE	R512	0195939R	RES.2125 CHIP 1/16W 39K-J TAPE
R451	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R513	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R452	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R514	0196884R	RES 2125CHIP 1/10W 680-F TAPE
R453	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R515	0196890R	RES 2125CHIP 1/10W1.2K-F TAPE
R454	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R516	0196892R	RES 2125CHIP 1/16W1.5K-F TAPE
R455	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R517	0195895R	RES.2125 CHIP 1/10W 680-J TAPE
R456	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R518	0195870R	RES.2125 CHIP 1/10W 68-J TAPE
R457	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R519	0196930R	RES 2125CHIP 1/16W 56K-F TAPE
R458	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R520	0195939R	RES.2125 CHIP 1/16W 39K-J TAPE
R459	0700027M	RES.-CARBON FLM 1/16W 100-JB	R521	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
R460	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB	R522	0196884R	RES 2125CHIP 1/10W 680-F TAPE
R461	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB	R523	0196890R	RES 2125CHIP 1/10W1.2K-F TAPE
R462	0700027M	RES.-CARBON FLM 1/16W 100-JB	R524	0196892R	RES 2125CHIP 1/16W1.5K-F TAPE
R463	0700027M	RES.-CARBON FLM 1/16W 100-JB	R525	0195895R	RES.2125 CHIP 1/10W 680-J TAPE

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R526	0195870R	RES.2125 CHIP 1/10W 68-J TAPE	R597	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R527	0196930R	RES 2125CHIP 1/16W 56K-F TAPE	R598	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
R528	0195939R	RES.2125 CHIP 1/16W 39K-J TAPE	R599	0195922R	RES 2125 CHIP 1/16W 8.2K-J TAPE
R529	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R601	0700064M	RES.-CARBON FLM 1/16W 56K-JB
R530	0196884R	RES 2125CHIP 1/10W 680-F TAPE	R602	0700055M	RES.-CARBON FLM 1/16W 12K-JB
R531	0196890R	RES 2125CHIP 1/10W1.2K-F TAPE	R606	0188171M	RES.-CARBON FLM 1M-JB 1/2W
R532	0196892R	RES 2125CHIP 1/16W1.5K-F TAPE	R610	0100053M	RES.-CARBON FLM 1/8W 330-JB
R533	0195895R	RES.2125 CHIP 1/10W 680-J TAPE	R617	AT03242S	METAL OX. 100OHM 1W
R534	0195870R	RES.2125 CHIP 1/10W 68-J TAPE	R618	0113725M	RESISTOR CARBON FILM SRD1/2P-B 100-J
R535	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R619	0113725M	RESISTOR CARBON FILM SRD1/2P-B 100-J
R536	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R620	0113725M	RESISTOR CARBON FILM SRD1/2P-B 100-J
R537	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R621	0188097M	RES.-CARBON FLM 1/2W 3.3-J
R539	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R629	0100117M	RES.-CARBON FLM 1/8W 150K-JB
R542	0196886R	RES 2125CHIP 1/10W 820-F TAPE	R630	AW00129	TRIMMER RESISTOR
R548	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R631	0188171M	RES.-CARBON FLM 1M-JB 1/2W
R549	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R632	0188171M	RES.-CARBON FLM 1M-JB 1/2W
R550	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R633	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R551	0700044M	RES.-CARBON FLM 1/16W 1.8K-JB	R634	0700058M	RES.-CARBON FLM 1/16W 22K-JB
R552	0700044M	RES.-CARBON FLM 1/16W 1.8K-JB	R637	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
R553	0700044M	RES.-CARBON FLM 1/16W 1.8K-JB	R638	0700032M	RES.-CARBON FLM 1/16W 220-JB
R554	0195250R	RES 2125 CHIP JAMPER WIRE	R639	0700053M	RES.-CARBON FLM 1/16W 8.2K-JB
R555	0195250R	RES 2125 CHIP JAMPER WIRE	R640	0100045M	RES.-CARBON FLM 1/8W 150-JB
R556	0195250R	RES 2125 CHIP JAMPER WIRE	R641	0119732M	RES.-METAL OXIDE FILM 1.2-JB
R557	0195250R	RES 2125 CHIP JAMPER WIRE	R642	0119732M	RES.-METAL OXIDE FILM 1.2-JB
R558	0195250R	RES 2125 CHIP JAMPER WIRE	R645	0119731M	RES.-MTL 0X1DE 1W R68-K TAPE
R559	0195250R	RES 2125 CHIP JAMPER WIRE	R646	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R560	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R647	0700059M	RES.-CARBON FLM 1/16W 27K-JB
R561	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R648	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R562	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R649	0100053M	RES.-CARBON FLM 1/8W 330-JB
R563	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R651	0700044M	RES.-CARBON FLM 1/16W 1.8K-JB
R564	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R652	0700058M	RES.-CARBON FLM 1/16W 22K-JB
R565	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R658	0100063M	RES.-CARBON FLM 1/8W 820-JB
R566	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R659	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R567	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R660	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R568	0195250R	RES 2125 CHIP JAMPER WIRE	R661	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
R569	0195250R	RES 2125 CHIP JAMPER WIRE	R662	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
R570	0195250R	RES 2125 CHIP JAMPER WIRE	R663	0700063M	RES.-CARBON FLM 1/16W 47K-JB
R571	0195250R	RES 2125 CHIP JAMPER WIRE	R664	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R572	0195250R	RES 2125 CHIP JAMPER WIRE	R667	0700053M	RES.-CARBON FLM 1/16W 8.2K-JB
R573	0195250R	RES 2125 CHIP JAMPER WIRE	R668	0700055M	RES.-CARBON FLM 1/16W 12K-JB
R576	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R669	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
R577	0195893R	RES 2125 CHIP 1/16W 560-J TAPE	R670	0700063M	RES.-CARBON FLM 1/16W 47K-JB
R578	0195250R	RES 2125 CHIP JAMPER WIRE	R671	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
R582	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R672	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB
R583	0195893R	RES 2125 CHIP 1/16W 560-J TAPE	R673	0188117M	RES.-CARBON FLM 1/2W 100-JB
R584	0195250R	RES 2125 CHIP JAMPER WIRE	R674	0188104M	RES.-CARBON FLM 1/2W 10-JB
R586	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R675	AT03293S	METAL OX. 8.2KOHM 1W
R587	0196861R	RES 2125CHIP 1/10W 75-F TAPE	R676	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R588	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R677	0700055M	RES.-CARBON FLM 1/16W 12K-JB
R589	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	R678	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R590	0195883R	RES 2125 CHIP 1/16W 220-J TAPE	R681	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
R591	0195956R	RES.CHIP 1/16W 180K-J TAPE	R682	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R593	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	R683	AW00126	TRIMMER RESISTOR
R594	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	R684	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
R595	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R685	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
R596	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	R686	AW00126	TRIMMER RESISTOR

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R687	0700058M	RES.-CARBON FLM 1/16W 22K-JB	R811	0144067	RS99J3Y122JF
R701	0187084M	RES.-CARBON FLM 1/16W 6.2K-JB	R812	0144067	RS99J3Y122JF
R702	0187054M	RES.-CARBON FLM 1/16W 360-JB	R813	0100035M	RES.-CARBON FLM 1/8W 56-JB
R703	0700027M	RES.-CARBON FLM 1/16W 100-JB	R814	0100035M	RES.-CARBON FLM 1/8W 56-JB
R704	0700027M	RES.-CARBON FLM 1/16W 100-JB	R815	0113725M	RESISTOR CARBON FILM SRD1/2P-B 100-J
R705	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	R816	0113815M	RESISTOR CARBON FILM SRD1/2P-B 470K-J
R706	0700058M	RES.-CARBON FLM 1/16W 22K-JB	R817	0114289M	RESISTOR-CARBON FILM SRD 1/4 P 220K-J
R707	0700054M	RES.-CARBON FLM 1/16W 10K-JB	R818	0114289M	RESISTOR-CARBON FILM SRD 1/4 P 220K-J
R708	0700048M	RES.-CARBON FLM 1/16W 3.9K-JB	R828	0100047M	RES.-CARBON FLM 1/8W 180-JB
R709	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB	R829	0150001	RESISTOR-VARIABLE CARBON RV08 200-B
R710	0700054M	RES.-CARBON FLM 1/16W 10K-JB	R830	0100049M	RES.-CARBON FLM 1/8W 220-JB
R711	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	R831	0100075M	RES.-CARBON FLM 1/8W 2.7K-JB
R712	0700027M	RES.-CARBON FLM 1/16W 100-JB	R832	0100077M	RES.-CARBON FLM 1/8W 3.3K-JB
R713	0700027M	RES.-CARBON FLM 1/16W 100-JB	R850	0100065M	RES.-CARBON FLM 1/8W 1K-JB
R714	0100065M	RES.-CARBON FLM 1/8W 1K-JB	R852	0100041M	RES.-CARBON FLM 1/8W 100-JB
R715	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	R853	0100047M	RES.-CARBON FLM 1/8W 180-JB
R716	0700053M	RES.-CARBON FLM 1/16W 8.2K-JB	R854	0100017M	RES.-CARBON FLM 1/8W 10-JB
R717	0700058M	RES.-CARBON FLM 1/16W 22K-JB	R855	0100025M	RES.-CARBON FLM 1/8W 22-JB
R718	0700058M	RES.-CARBON FLM 1/16W 22K-JB	R856	0119559M	RES.-MTL FLM 1/8W 10-FB
R720	0700063M	RES.-CARBON FLM 1/16W 47K-JB	R857	0114149M	RESISTOR-CARBON FILM SRD 1/4 PF 560-J
R721	0700063M	RES.-CARBON FLM 1/16W 47K-JB	R858	0100113M	RES.-CARBON FLM 1/8W 100K-JB
R722	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	R859	0100073M	RES.-CARBON FLM 1/8W 2.2K-JB
R723	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	R861	0144067	RS99J3Y122JF
R731	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	R862	0144067	RS99J3Y122JF
R751	0700034M	RES.-CARBON FLM 1/16W 330-JB	R863	0100035M	RES.-CARBON FLM 1/8W 56-JB
R752	0700032M	RES.-CARBON FLM 1/16W 220-JB	R864	0100035M	RES.-CARBON FLM 1/8W 56-JB
R753	0188129M	RES.-CARBOM FLM 820-J 1/2W	R865	0113725M	RESISTOR CARBON FILM SRD1/2P-B 100-J
R754	AT03417S	METAL OX. 390OHM 2W	R866	0113815M	RESISTOR CARBON FILM SRD1/2P-B 470K-J
R755	AT03417S	METAL OX. 390OHM 2W	R867	0100069M	RES.-CARBON FLM 1/8W 1.5K-JB
R756	0119688M	RES.-MTL FLM 1W 0.22-JB	R868	0114141M	RES.-CARBON FLM 1/4W 270-JB
R757	0119688M	RES.-MTL FLM 1W 0.22-JB	R870	0114153M	RES.-CARBON FILM 1/4W 820-JB
R758	0188104M	RES.-CARBON FLM 1/2W 10-JB	R873	0100059M	RES.-CARBON FLM 1/8W 560-JB
R759	AT03251S	METAL OX. 220OHM 1W	R878	0100045M	RES.-CARBON FLM 1/8W 150-JB
R760	AT03251S	METAL OX. 220OHM 1W	R879	0150001	RESISTOR-VARIABLE CARBON RV08 200-B
R766	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB	R880	0100049M	RES.-CARBON FLM 1/8W 220-JB
R769	0700062M	RES.-CARBON FLM 1/16W 39K-JB	R881	0100075M	RES.-CARBON FLM 1/8W 2.7K-JB
R770	0700067M	RES.-CARBON FLM 1/16W 100K-JB	R882	0100077M	RES.-CARBON FLM 1/8W 3.3K-JB
R771	0700059M	RES.-CARBON FLM 1/16W 27K-JB	R8A2	0100041M	RES.-CARBON FLM 1/8W 100-JB
R772	0700059M	RES.-CARBON FLM 1/16W 27K-JB	R8A3	0100047M	RES.-CARBON FLM 1/8W 180-JB
R773	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB	R8A4	0100017M	RES.-CARBON FLM 1/8W 10-JB
R775	0100085M	RES.-CARBON FLM 1/8W 6.8K-JB	R8A5	0100037M	RES.-CARBON FLM 1/8W 68-JB
R776	0700055M	RES.-CARBON FLM 1/16W 12K-JB	R8A6	0119559M	RES.-MTL FLM 1/8W 10-FB
R777	0700032M	RES.-CARBON FLM 1/16W 220-JB	R8A7	0114149M	RESISTOR-CARBON FILM SRD 1/4 PF 560-J
R778	0188122M	RES.-CARBON FLM 1/2W 220-J	R8A8	0100113M	RES.-CARBON FLM 1/8W 100K-JB
R780	AT03562S	METAL OX. 100OHM 3W	R8A9	0100073M	RES.-CARBON FLM 1/8W 2.2K-JB
R781	0188141M	RES.-CARBON FLM 1/2W 5.6K-JB	R8C0	0100065M	RES.-CARBON FLM 1/8W 1K-JB
R788	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R8C1	0144067	RS99J3Y122JF
R802	0100041M	RES.-CARBON FLM 1/8W 100-JB	R8C2	0144067	RS99J3Y122JF
R803	0100047M	RES.-CARBON FLM 1/8W 180-JB	R8C3	0100035M	RES.-CARBON FLM 1/8W 56-JB
R804	0100017M	RES.-CARBON FLM 1/8W 10-JB	R8C4	0100035M	RES.-CARBON FLM 1/8W 56-JB
R805	0100025M	RES.-CARBON FLM 1/8W 22-JB	R8C5	0113725M	RESISTOR CARBON FILM SRD1/2P-B 100-J
R806	0119559M	RES.-MTL FLM 1/8W 10-FB	R8C6	0113815M	RESISTOR CARBON FILM SRD1/2P-B 470K-J
R807	0114149M	RESISTOR-CARBON FILM SRD 1/4 PF 560-J	R8E3	0100089M	RES.-CARBON FLM 1/8W 10K-JB
R808	0100113M	RES.-CARBON FLM 1/8W 100K-JB	R8E4	0100105M	RES.-CARBON FLM 1/8W 47K-JB
R809	0100071M	RES.-CARBON FLM 1/8W 1.8K-JB	R8E5	0100037M	RES.-CARBON FLM 1/8W 68-JB
R810	0100065M	RES.-CARBON FLM 1/8W 1K-JB	R8E6	0100067M	RES.-CARBON FLM 1/8W 1.2K-JB

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R8E7	0100087M	RES.-CARBON FLM 1/8W 8.2K-JB	⚠ R956	0700038M	RES.-CARBON FLM 1/16W 680-JB
R8E8	0100083M	RES.-CARBON FLM 1/8W 5.6K-JB	R957	0700027M	RES.-CARBON FLM 1/16W 100-JB
R8F0	0100049M	RES.-CARBON FLM 1/8W 220-JB	R958	0700058M	RES.-CARBON FLM 1/16W 22K-JB
R8F1	0100075M	RES.-CARBON FLM 1/8W 2.7K-JB	R959	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R8F2	0100077M	RES.-CARBON FLM 1/8W 3.3K-JB	R960	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
⚠ R901	AT03665M	RES.MTL GRAZD FLM 1/2W 1M	R963	0700056M	RES.-CARBON FLM 1/16W 15K-JB
⚠ R902	0147702	RES.WIRE WOUND 10W 0.47 OHM CEMENTED	R964	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
R903	0188162M	RES.-CARBON FLM 220K-JB 1/2W	R965	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
R904	0188162M	RES.-CARBON FLM 220K-JB 1/2W	R966	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
R905	AT03448S	METAL OX. 5.6KOHM 2W	R967	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
R906	AT03448S	METAL OX. 5.6KOHM 2W	R968	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
R907	0700055M	RES.-CARBON FLM 1/16W 12K-JB	R969	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R908	0100037M	RES.-CARBON FLM 1/8W 68-JB	R970	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R909	0100033M	RES.-CARBON FLM 1/8W 47-JB	⚠ R971	AT03665M	RES.MTL GRAZD FLM 1/2W 1M
R910	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RC01	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
R911	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RC02	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
R912	0700038M	RES.-CARBON FLM 1/16W 680-JB	RC03	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R914	0188104M	RES.-CARBON FLM 1/2W 10-JB	RC04	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R916	0100073M	RES.-CARBON FLM 1/8W 2.2K-JB	RC05	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
R917	0700036M	RES.-CARBON FLM 1/16W 470-JB	RC06	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
R918	AT01534S	METAL FILM 0.22OHM 1/2W	RC07	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
R919	AT01534S	METAL FILM 0.22OHM 1/2W	RC08	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE
⚠ R921	AT03665M	RES.MTL GRAZD FLM 1/2W 1M	RC09	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
R922	0188157M	RES.-CARBON FLM 100K-J 1/2W	RC10	0700036M	RES.-CARBON FLM 1/16W 470-JB
⚠ R923	0147702	RES.WIRE WOUND 10W 0.47 OHM CEMENTED	RC11	0700058M	RES.-CARBON FLM 1/16W 22K-JB
⚠ R924	0147060	RES.-WIRE WOUND 2W 33-K	RC12	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
R926	0188146M	RES.-CARBON FLM 1/4W 15K-JB	RC13	0195945R	RES 2125 CHIP 1/16W 68K-J TAPE
R927	0188133M	RES.-CARBON FLM 1/2W 1.5K-JB	RC14	0195945R	RES 2125 CHIP 1/16W 68K-J TAPE
R928	0700038M	RES.-CARBON FLM 1/16W 680-JB	RC15	AT01549S	METAL FILM RESISTOR(2.2OHM 1W)
R929	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	RC16	AT01549S	METAL FILM RESISTOR(2.2OHM 1W)
R930	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	RC17	0114161M	RES.-CARBON FLM 1/4W 1K-JB
R931	0700036M	RES.-CARBON FLM 1/16W 470-JB	RC18	0114161M	RES.-CARBON FLM 1/4W 1K-JB
R932	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	RC21	0700027M	RES.-CARBON FLM 1/16W 100-JB
R933	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB	RC22	0700027M	RES.-CARBON FLM 1/16W 100-JB
R934	0700028M	RES.-CARBON FLM 1/16W 120-JB	RC23	0700027M	RES.-CARBON FLM 1/16W 100-JB
R935	0700042M	RES.-CARBON FLM 1/16W 1.2K-JB	RC24	0700027M	RES.-CARBON FLM 1/16W 100-JB
R936	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB	RE01	0100065M	RES.-CARBON FLM 1/8W 1K-JB
R937	0700024M	RES.-CARBON FLM 1/16W 56-J	RE02	0700055M	RES.-CARBON FLM 1/16W 12K-JB
R938	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB	RE03	0700066M	RES.-CARBON FLM 1/16W 82K-JB
R939	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB	RE04	0700024M	RES.-CARBON FLM 1/16W 56-J
R940	0100073M	RES.-CARBON FLM 1/8W 2.2K-JB	RE05	0114147M	RES.-CARBON FLM 1/4W 470-JB
R941	0700055M	RES.-CARBON FLM 1/16W 12K-JB	RE06	0700018M	RES.-CARBON FLM 1/16W 22-J
R942	0700055M	RES.-CARBON FLM 1/16W 12K-JB	RE07	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R943	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RE08	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R944	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	RE09	0700055M	RES.-CARBON FLM 1/16W 12K-JB
R945	0188136M	RES.-CARBON FLM 2.7K-J 1/2W	RE10	0700055M	RES.-CARBON FLM 1/16W 12K-JB
R946	0100087M	RES.-CARBON FLM 1/8W 8.2K-JB	RE11	0700027M	RES.-CARBON FLM 1/16W 100-JB
R947	0100096M	RES.-CARBON FLM 1/8W 20K-JB	RE12	0700024M	RES.-CARBON FLM 1/16W 56-J
R948	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB	RE13	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R949	0100083M	RES.-CARBON FLM 1/8W 5.6K-JB	RE16	0700027M	RES.-CARBON FLM 1/16W 100-JB
R950	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RE17	0114171M	RES.-CARBON FLM 1/4W 2.7K-JB
R951	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	RE18	0700065M	RES.-CARBON FLM 1/16W 68K-JB
R952	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RE19	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
R953	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RE20	0700024M	RES.-CARBON FLM 1/16W 56-J
R954	0700058M	RES.-CARBON FLM 1/16W 22K-JB	RE21	0114131M	RES.-CARBON FLM 1/4W 100-JB
⚠ R955	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB	RE23	0114153M	RES.-CARBON FILM 1/4W 820-JB

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RE24	0700027M	RES.-CARBON FLM 1/16W 100-JB	RF22	AT03662M	RES.MTL GRAZD FLM 1/2W 560K
RE27	0113750M	RES.-CARBON FLM 1/2W 1K-JB	RF23	0700059M	RES.-CARBON FLM 1/16W 27K-JB
RE28	0700017M	RES.-CARBON FLM 1/16W 18-J	RF24	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
RE29	0113750M	RES.-CARBON FLM 1/2W 1K-JB	RF25	AT03661M	RES.MTL GRAZD FLM 1/2W 470K
RE31	0700014M	RES.-CARBON FLM 1/16W 10-J	RF26	0113783M	RES.-CARBON FLM 1/2W 22K-JB
RE32	0700014M	RES.-CARBON FLM 1/16W 10-J	RF27	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
RE33	0114041M	RESISTOR-CARBON FILM SRD 1/4P 10J	RF30	0113783M	RES.-CARBON FLM 1/2W 22K-JB
RE50	0110237S	RES.-MTL OXIDE FLM 2W 470-J	RF35	AT03562S	METAL OX. 100OHM 3W
RE51	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RF36	0188171M	RES.-CARBON FLM 1M-JB 1/2W
RE52	0100021M	RES.-CARBON FLM 1/8W 15-JB	RF37	0188117M	RES.-CARBON FLM 1/2W 100-JB
RE53	0700027M	RES.-CARBON FLM 1/16W 100-JB	RF40	0188135M	RES.-CARBON FLM 1/4W 2.2K-JB
RE54	0700027M	RES.-CARBON FLM 1/16W 100-JB	RG01	0196924R	RES 2125CHIP 1/16W 33K-F TAPE
RE55	0700067M	RES.-CARBON FLM 1/16W 100K-JB	RG02	0196924R	RES 2125CHIP 1/16W 33K-F TAPE
RE56	0100065M	RES.-CARBON FLM 1/8W 1K-JB	RG03	0196924R	RES 2125CHIP 1/16W 33K-F TAPE
RE57	0113791M	RES.-CARBON FLM 1/2W 47K-JB	RG04	0196924R	RES 2125CHIP 1/16W 33K-F TAPE
RE60	0114281M	RESISTOR-CARBON FILM SRD 1/4P 100K-J	RG05	0196924R	RES 2125CHIP 1/16W 33K-F TAPE
RE61	0100065M	RES.-CARBON FLM 1/8W 1K-JB	RG06	0196924R	RES 2125CHIP 1/16W 33K-F TAPE
RE62	0100017M	RES.-CARBON FLM 1/8W 10-JB	RG07	0196932R	RES 2125CHIP 1/16W 68K-F TAPE
RE66	0100017M	RES.-CARBON FLM 1/8W 10-JB	RG08	0196932R	RES 2125CHIP 1/16W 68K-F TAPE
RE67	0114057M	RESISTOR-CARBON FILM SRD 1/4 PF 47-J	RG09	0196932R	RES 2125CHIP 1/16W 68K-F TAPE
RE68	0114057M	RESISTOR-CARBON FILM SRD 1/4 PF 47-J	RG10	0196932R	RES 2125CHIP 1/16W 68K-F TAPE
RE69	0113698M	RES.-CARBON FLM 1/2W 8.2-J	RG11	0196932R	RES 2125CHIP 1/16W 68K-F TAPE
RE70	0113698M	RES.-CARBON FLM 1/2W 8.2-J	RG12	0196932R	RES 2125CHIP 1/16W 68K-F TAPE
RE71	0100041M	RES.-CARBON FLM 1/8W 100-JB	RG13	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RE72	0100041M	RES.-CARBON FLM 1/8W 100-JB	RG14	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RE73	0100095M	RES.-CARBON FLM 1/8W 18K-JB	RG15	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RE74	0114219M	RES.-CARBON FLM 1/4W 56K-JB	RG16	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RE75	0114219M	RES.-CARBON FLM 1/4W 56K-JB	RG17	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RE76	0100095M	RES.-CARBON FLM 1/8W 18K-JB	RG18	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RE77	0110329S	RES.-MTL OXIDE FLM 3W 220-JS	RG19	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RE78	0110329S	RES.-MTL OXIDE FLM 3W 220-JS	RG20	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
REE5	0114281M	RESISTOR-CARBON FILM SRD 1/4P 100K-J	RG21	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
REE6	0700065M	RES.-CARBON FLM 1/16W 68K-JB	RG22	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
REE7	0700064M	RES.-CARBON FLM 1/16W 56K-JB	RG23	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
REF0	0100113M	RES.-CARBON FLM 1/8W 100K-JB	RG24	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
REF1	0700055M	RES.-CARBON FLM 1/16W 12K-JB	RG25	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
REF4	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB	RG26	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RF02	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RG27	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RF03	0700063M	RES.-CARBON FLM 1/16W 47K-JB	RG28	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RF04	0700067M	RES.-CARBON FLM 1/16W 100K-JB	RG29	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RF05	0700055M	RES.-CARBON FLM 1/16W 12K-JB	RG30	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RF06	0700042M	RES.-CARBON FLM 1/16W 1.2K-JB	RG55	0195904R	RES.2125 CHIP 1/16W 1.5K-J TAPE
RF07	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RG56	0195904R	RES.2125 CHIP 1/16W 1.5K-J TAPE
RF08	0188117M	RES.-CARBON FLM 1/2W 100-JB	RG57	0195904R	RES.2125 CHIP 1/16W 1.5K-J TAPE
RF10	0700056M	RES.-CARBON FLM 1/16W 15K-JB	RG58	0195904R	RES.2125 CHIP 1/16W 1.5K-J TAPE
RF11	0700025M	RES.-CARBON FLM 1/16W 68-J	RG59	0195904R	RES.2125 CHIP 1/16W 1.5K-J TAPE
RF12	0700025M	RES.-CARBON FLM 1/16W 68-J	RG60	0195904R	RES.2125 CHIP 1/16W 1.5K-J TAPE
RF13	AT03654M	RES.MTL GRAZD FLM 1/2W 180K	RG61	0195250R	RES 2125 CHIP JAMPER WIRE
RF14	AT03654M	RES.MTL GRAZD FLM 1/2W 180K	RG62	0195250R	RES 2125 CHIP JAMPER WIRE
RF15	AT03654M	RES.MTL GRAZD FLM 1/2W 180K	RG63	0195250R	RES 2125 CHIP JAMPER WIRE
RF16	AT03662M	RES.MTL GRAZD FLM 1/2W 560K	RG64	0195250R	RES 2125 CHIP JAMPER WIRE
RF17	AT03662M	RES.MTL GRAZD FLM 1/2W 560K	RG65	0195250R	RES 2125 CHIP JAMPER WIRE
RF18	0187096M	RES.-CARBON FLM 1/16W 20K-JB	RG66	0195250R	RES 2125 CHIP JAMPER WIRE
RF19	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	RG67	0195250R	RES 2125 CHIP JAMPER WIRE
RF20	0700063M	RES.-CARBON FLM 1/16W 47K-JB	RG68	0195250R	RES 2125 CHIP JAMPER WIRE
RF21	AT03662M	RES.MTL GRAZD FLM 1/2W 560K	RH01	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB

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RH10	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RK29	0700027M	RES.-CARBON FLM 1/16W 100-JB
RH11	0188103M	RES.-CARBON FLM 8.2-J 1/2W	RK30	0700027M	RES.-CARBON FLM 1/16W 100-JB
RH12	0188142M	RES.-CARBON FLM 1/2W 6.8K-JB	RK31	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RH17	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB	RK32	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RH18	0100033M	RES.-CARBON FLM 1/8W 47-JB	RK33	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RH19	0100053M	RES.-CARBON FLM 1/8W 330-JB	RK34	0700063M	RES.-CARBON FLM 1/16W 47K-JB
⚠ RH20	0148052	RES.-WIRE WOUND 0.68-K 3W	RK35	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RH31	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RK36	0700063M	RES.-CARBON FLM 1/16W 47K-JB
⚠ RH35	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB	RK37	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RH36	0700055M	RES.-CARBON FLM 1/16W 12K-JB	RK38	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RH37	0700065M	RES.-CARBON FLM 1/16W 68K-JB	RK39	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RH38	0187098M	RES.-CARBON FLM 1/16W 24K-JB	RK40	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RH39	0700062M	RES.-CARBON FLM 1/16W 39K-JB	RK42	AT01549S	METAL FILM RESISTOR(2.2OHM 1W)
⚠ RH43	0100051M	RES.-CARBON FLM 1/8W 270-JB	RK43	AT00501S	RES.MTL OXIDE FLM 2W 220 OHM
⚠ RH44	AW00208	TRIMMER RESISTOR 100KOHM 1/2W	RK44	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RH46	0700056M	RES.-CARBON FLM 1/16W 15K-JB	RK46	AT01545S	METAL FILM RESISTOR(1.5OHM 1W)
RH50	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	RK47	AT00496S	RES.MTL OXIDE FLM 2W 150 OHM
RH51	0700055M	RES.-CARBON FLM 1/16W 12K-JB	RK48	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RH52	0700067M	RES.-CARBON FLM 1/16W 100K-JB	RK50	AT01549S	METAL FILM RESISTOR(2.2OHM 1W)
RH53	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	RK51	AT00501S	RES.MTL OXIDE FLM 2W 220 OHM
⚠ RH54	0119633M	RES.-MTL FLM 1/8W 12K-FB	RK52	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
⚠ RH55	0119648M	RES.-MTL FLM 1/8W 51K-FB	RK54	AT01545S	METAL FILM RESISTOR(1.5OHM 1W)
RH56	0188145M	RES.-CARBON FLM 12K-J 1/2W	RK55	AT00496S	RES.MTL OXIDE FLM 2W 150 OHM
RH58	0188152M	RES.-CARBON FLM 39K-J 1/2W	RK56	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RH59	0113790M	RES.CARBON FILM 43K-J 1/2W	RK58	AT03199S	METAL OX. 2.7OHM 1W
RH60	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	RK59	AT00501S	RES.MTL OXIDE FLM 2W 220 OHM
RH61	0100069M	RES.-CARBON FLM 1/8W 1.5K-JB	RK60	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RH67	0188127M	RES.-CARBON FLM 560-JB 1/2W	RK62	AT01547S	METAL FILM RESISTOR(1.8OHM 1W)
⚠ RH72	0700062M	RES.-CARBON FLM 1/16W 39K-JB	RK63	AT00496S	RES.MTL OXIDE FLM 2W 150 OHM
⚠ RH73	0119653M	RES.-MTL FLM 1/8W 82K-FB	RK64	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RH77	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	RK65	0700054M	RES.-CARBON FLM 1/16W 10K-JB
⚠ RH80	0119646M	RES.-MTL FLM 1/8W 43K-FB	RK82	0700059M	RES.-CARBON FLM 1/16W 27K-JB
RH81	0700067M	RES.-CARBON FLM 1/16W 100K-JB	RK83	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
RH82	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RK84	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RK01	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	RK90	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RK02	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	RK92	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RK03	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	RL10	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RK04	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	RL11	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RK05	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	RL12	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RK06	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	RL13	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RK07	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	RL14	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RK08	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	RL15	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RK09	0100057M	RES.-CARBON FLM 1/8W 470-JB	RL16	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RK10	0700042M	RES.-CARBON FLM 1/16W 1.2K-JB	RL17	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RK11	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RL20	0100133M	RES.-CARBON FLM 1/8W 680K-JB
RK12	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RL21	0100121M	RES.-CARBON FLM 1/8W 220K-JB
RK13	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RL22	0100133M	RES.-CARBON FLM 1/8W 680K-JB
RK17	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	RL23	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RK18	0700048M	RES.-CARBON FLM 1/16W 3.9K-JB	RL24	0100133M	RES.-CARBON FLM 1/8W 680K-JB
RK22	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RL25	0100121M	RES.-CARBON FLM 1/8W 220K-JB
RK23	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB	RL26	0100133M	RES.-CARBON FLM 1/8W 680K-JB
RK24	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB	RL27	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RK25	0700063M	RES.-CARBON FLM 1/16W 47K-JB	RL30	0700027M	RES.-CARBON FLM 1/16W 100-JB
RK26	0700063M	RES.-CARBON FLM 1/16W 47K-JB	RL31	0700027M	RES.-CARBON FLM 1/16W 100-JB
RK27	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RL32	0700027M	RES.-CARBON FLM 1/16W 100-JB
RK28	0700027M	RES.-CARBON FLM 1/16W 100-JB	RL33	0700027M	RES.-CARBON FLM 1/16W 100-JB

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
RL34	0700027M	RES.-CARBON FLM 1/16W 100-JB	RP03	AT01129S	RES.MTL OXIDE FLM 1W 5.6K OHM
RL35	0700027M	RES.-CARBON FLM 1/16W 100-JB	RP04	0700038M	RES.-CARBON FLM 1/16W 680-JB
RL36	0700027M	RES.-CARBON FLM 1/16W 100-JB	RP05	0188104M	RES.-CARBON FLM 1/2W 10-JB
RL37	0700027M	RES.-CARBON FLM 1/16W 100-JB	RP08	0100073M	RES.-CARBON FLM 1/8W 2.2K-JB
RL38	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	RP09	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RM01	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RP10	AT01534S	METAL FILM 0.22OHM 1/2W
RM02	0700058M	RES.-CARBON FLM 1/16W 22K-JB	RP11	AT01534S	METAL FILM 0.22OHM 1/2W
RM03	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	RP12	AT01534S	METAL FILM 0.22OHM 1/2W
RM04	0100065M	RES.-CARBON FLM 1/8W 1K-JB	RP14	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RM05	0100065M	RES.-CARBON FLM 1/8W 1K-JB	RP15	0700032M	RES.-CARBON FLM 1/16W 220-JB
RM06	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RP16	AT03464S	METAL OX. 22K OHM 2W
RM07	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB	RP17	0119695M	RES.-MTL OXIDE FLM 1W 0.47-F
RM08	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB	RP18	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RM09	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	RP19	0700058M	RES.-CARBON FLM 1/16W 22K-JB
RM10	0100129M	RES.-CARBON FLM 1/8W 470K-JB	RP20	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RM11	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RP21	0188156M	RES.-CARBON FLM 82K-J 1/2W
RM12	0100125M	RES.-CARBON FLM 1/8W 330K-JB	RP22	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
RM13	0114161M	RES.-CARBON FLM 1/4W 1K-JB	⚠ RP23	0700039M	RES.-CARBON FLM 1/16W 820-JB
RM14	0100125M	RES.-CARBON FLM 1/8W 330K-JB	⚠ RP24	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB
RM15	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RP25	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RM20	0100041M	RES.-CARBON FLM 1/8W 100-JB	RP26	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RM21	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RP27	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB
RM22	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RP28	0188154M	RES.-CARBON FLM 1/2W 56K-JB
RM23	0700064M	RES.-CARBON FLM 1/16W 56K-JB	RP29	0188154M	RES.-CARBON FLM 1/2W 56K-JB
RM24	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	RP30	0700056M	RES.-CARBON FLM 1/16W 15K-JB
RM25	0100123M	RES.-CARBON FLM 1/8W 270K-JB	RP31	0700055M	RES.-CARBON FLM 1/16W 12K-JB
RM26	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB	RP32	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RM27	0700064M	RES.-CARBON FLM 1/16W 56K-JB	RP33	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RM28	0100123M	RES.-CARBON FLM 1/8W 270K-JB	RP34	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
RM29	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RP35	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RM30	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RP36	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RM31	0100041M	RES.-CARBON FLM 1/8W 100-JB	RP37	0100069M	RES.-CARBON FLM 1/8W 1.5K-JB
RM35	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RP38	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RM38	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RP39	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
RM40	0700067M	RES.-CARBON FLM 1/16W 100K-JB	RP40	0700027M	RES.-CARBON FLM 1/16W 100-JB
RM41	0700032M	RES.-CARBON FLM 1/16W 220-JB	RP41	AT00443S	RES.MTL OXIDE FLM 2W 1.5 OHM
RM42	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RP42	0700055M	RES.-CARBON FLM 1/16W 12K-JB
RN01	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB	RS01	0700027M	RES.-CARBON FLM 1/16W 100-JB
RN02	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RS02	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RN03	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RS03	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RN04	0700067M	RES.-CARBON FLM 1/16W 100K-JB	RS04	0700027M	RES.-CARBON FLM 1/16W 100-JB
RN05	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB	RS05	0700027M	RES.-CARBON FLM 1/16W 100-JB
RN06	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RS06	0700027M	RES.-CARBON FLM 1/16W 100-JB
RN07	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB	RS07	0700027M	RES.-CARBON FLM 1/16W 100-JB
RN08	0700044M	RES.-CARBON FLM 1/16W 1.8K-JB	RS08	0700027M	RES.-CARBON FLM 1/16W 100-JB
RN09	0700061M	RES.-CARBON FLM 1/16W 33K-JB	RS09	0700027M	RES.-CARBON FLM 1/16W 100-JB
RN10	0700057M	RES.-CARBON FLM 1/16W 18K-JB	RS10	0700027M	RES.-CARBON FLM 1/16W 100-JB
RN11	0700058M	RES.-CARBON FLM 1/16W 22K-JB	RS11	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RN12	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB	RS12	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RN13	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RS13	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RN14	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB	RS14	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RN15	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB	RS15	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RN16	0700058M	RES.-CARBON FLM 1/16W 22K-JB	RS16	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RN21	0700063M	RES.-CARBON FLM 1/16W 47K-JB	RS17	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RP01	0188165M	RES.-CARBON FLM 390K-J 1/2W	RS18	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RP02	AT01129S	RES.MTL OXIDE FLM 1W 5.6K OHM	RS19	0195875R	RES 2125 CHIP 1/16W 100-J TAPE

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
RS20	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	RS84	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RS21	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RS85	0195935R	RES 2125 CHIP 1/16W 27K-J TAPE
RS22	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RS87	0195250R	RES 2125 CHIP JAMPER WIRE
RS23	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RS88	0195935R	RES 2125 CHIP 1/16W 27K-J TAPE
RS24	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RS89	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RS25	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RS90	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RS26	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	RS91	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
RS27	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RS92	0195921R	RESISTOR MINI-CHIP RMC1/16 7.5K-J TAPE
RS28	0700027M	RES.-CARBON FLM 1/16W 100-JB	RS93	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
RS29	0195916R	RES.2125 CHIP 1/16W 4.7K-J TAPE	RS94	0195917R	RES.CHIP RMC1/16 5.1K-J TAPE
RS30	0195913R	RES.CHIP RMC1/16 3.6K-J TAPE	RS95	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
RS32	0195916R	RES.2125 CHIP 1/16W 4.7K-J TAPE	RS96	0195917R	RES.CHIP RMC1/16 5.1K-J TAPE
RS34	0195916R	RES.2125 CHIP 1/16W 4.7K-J TAPE	RS97	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
RS35	0700063M	RES.-CARBON FLM 1/16W 47K-JB	RS98	0195917R	RES.CHIP RMC1/16 5.1K-J TAPE
RS36	0195916R	RES.2125 CHIP 1/16W 4.7K-J TAPE	RS99	0195940R	RESISTOR MINI-CHIP RMC1/16 43K-J TAPE
RS37	0195913R	RES.CHIP RMC1/16 3.6K-J TAPE	RSA1	0195917R	RES.CHIP RMC1/16 5.1K-J TAPE
RS38	0700063M	RES.-CARBON FLM 1/16W 47K-JB	RSA8	0700032M	RES.-CARBON FLM 1/16W 220-JB
RS39	0700027M	RES.-CARBON FLM 1/16W 100-JB	RSC1	0700027M	RES.-CARBON FLM 1/16W 100-JB
RS40	0700027M	RES.-CARBON FLM 1/16W 100-JB	RSC3	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RS41	0195935R	RES 2125 CHIP 1/16W 27K-J TAPE	RSC4	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RS43	0195250R	RES 2125 CHIP JAMPER WIRE	RSC5	0700027M	RES.-CARBON FLM 1/16W 100-JB
RS44	0195935R	RES 2125 CHIP 1/16W 27K-J TAPE	RSC6	0700027M	RES.-CARBON FLM 1/16W 100-JB
RS46	0195250R	RES 2125 CHIP JAMPER WIRE	RSC7	0195935R	RES 2125 CHIP 1/16W 27K-J TAPE
RS47	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RSC8	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RS48	0195921R	RESISTOR MINI-CHIP RMC1/16 7.5K-J TAPE	RSC9	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RS49	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RSE1	0195935R	RES 2125 CHIP 1/16W 27K-J TAPE
RS50	0195917R	RES.CHIP RMC1/16 5.1K-J TAPE	RSE2	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RS51	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RSE3	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RS52	0195917R	RES.CHIP RMC1/16 5.1K-J TAPE	RSE4	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RS53	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RSE9	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
RS54	0195917R	RES.CHIP RMC1/16 5.1K-J TAPE	RSF2	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
RS55	0195940R	RESISTOR MINI-CHIP RMC1/16 43K-J TAPE	RSF4	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RS56	0195917R	RES.CHIP RMC1/16 5.1K-J TAPE	RSF5	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RS57	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RSF6	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE
RS58	0195921R	RESISTOR MINI-CHIP RMC1/16 7.5K-J TAPE	RSF7	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
RS59	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RSF8	0195891R	RES 2125 CHIP 1/16W 470-J TAPE
RS60	0195917R	RES.CHIP RMC1/16 5.1K-J TAPE	RSF9	0195933R	RES.2125 CHIP 1/16W 22K-J TAPE
RS61	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RSH1	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RS62	0195917R	RES.CHIP RMC1/16 5.1K-J TAPE	RSH2	0195945R	RES 2125 CHIP 1/16W 68K-J TAPE
RS63	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RSH3	0195945R	RES 2125 CHIP 1/16W 68K-J TAPE
RS64	0195917R	RES.CHIP RMC1/16 5.1K-J TAPE	RSH4	AT01549S	METAL FILM RESISTOR(2.2OHM 1W)
RS65	0195940R	RESISTOR MINI-CHIP RMC1/16 43K-J TAPE	RSH6	0188131M	RES.-CARBON FLM 1/4W 1K-JB
RS66	0195917R	RES.CHIP RMC1/16 5.1K-J TAPE	RSJ1	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
RS67	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	RSJ2	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
RS68	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	RSJ3	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
RS70	0195935R	RES 2125 CHIP 1/16W 27K-J TAPE	RSJ4	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
RS71	0187098M	RES.-CARBON FLM 1/16W 24K-JB	RSJ5	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RS72	0195934R	RES 2125 CHIP 1/16W 24K-J TAPE	RSJ6	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RS73	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	RSJ7	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RS74	0187092M	RES.-CARBON FLM 1/16W 13K-JB	RSJ8	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE
RS75	0187092M	RES.-CARBON FLM 1/16W 13K-JB	RSJ9	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
RS77	0195933R	RES.2125 CHIP 1/16W 22K-J TAPE	RSK1	0700036M	RES.-CARBON FLM 1/16W 470-JB
RS78	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	RSK2	0195933R	RES.2125 CHIP 1/16W 22K-J TAPE
RS80	0195919R	RES.2125 CHIP 1/16W 6.2K-J TAPE	RSK3	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RS81	0700063M	RES.-CARBON FLM 1/16W 47K-JB	RSK4	0195945R	RES 2125 CHIP 1/16W 68K-J TAPE
RS83	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	RSK5	0195945R	RES 2125 CHIP 1/16W 68K-J TAPE

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
RSK6	AT01549S	METAL FILM RESISTOR(2.2OHM 1W)	RSW2	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE
RSK7	AT01549S	METAL FILM RESISTOR(2.2OHM 1W)	RSW3	0195250R	RES 2125 CHIP JAMPER WIRE
RSK8	0188131M	RES.-CARBON FLM 1/4W 1K-JB	RSW5	0195975R	RMC73S-2A105JR
RSK9	0188131M	RES.-CARBON FLM 1/4W 1K-JB	RSW8	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RSL1	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RSW9	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RSL2	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RSX1	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RSL3	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	RSX2	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RSL4	0195250R	RES 2125 CHIP JAMPER WIRE	RSX3	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RSL5	0195250R	RES 2125 CHIP JAMPER WIRE	RSX4	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RSL6	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RX01	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
RSL7	0195883R	RES 2125 CHIP 1/16W 220-J TAPE	RX02	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RSL8	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE	RX03	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RSL9	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RX04	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RSM1	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RX05	0195885R	RESISTOR 2125 CHIP 1/16W 270J TAPE
RSM2	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RX06	0195885R	RESISTOR 2125 CHIP 1/16W 270J TAPE
RSM3	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	RX07	0195885R	RESISTOR 2125 CHIP 1/16W 270J TAPE
RSM4	0195250R	RES 2125 CHIP JAMPER WIRE	RX08	0195910R	RES.2125 CHIP 1/16W 2.7K-J TAPE
RSM5	0195250R	RES 2125 CHIP JAMPER WIRE	RX09	0195910R	RES.2125 CHIP 1/16W 2.7K-J TAPE
RSM6	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RX10	0195910R	RES.2125 CHIP 1/16W 2.7K-J TAPE
RSM7	0700032M	RES.-CARBON FLM 1/16W 220-JB	RX14	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RSM8	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE	RX15	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RSM9	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RX16	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RSN1	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RX20	0195910R	RES.2125 CHIP 1/16W 2.7K-J TAPE
RSN2	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE	RX21	0195910R	RES.2125 CHIP 1/16W 2.7K-J TAPE
RSN3	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RX22	0195910R	RES.2125 CHIP 1/16W 2.7K-J TAPE
RSN4	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE	RX26	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RSN5	0700032M	RES.-CARBON FLM 1/16W 220-JB	RX27	0195968R	RES 2125 CHIP 1/16W 560K-J TAPE
RSN6	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RX29	0195250R	RES 2125 CHIP JAMPER WIRE
RSN7	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RX32	0195250R	RES 2125 CHIP JAMPER WIRE
RSP4	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RX33	0195935R	RES 2125 CHIP 1/16W 27K-J TAPE
RSP5	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE	RX34	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RSP6	0195916R	RES.2125 CHIP 1/16W 4.7K-J TAPE	RX35	0195902R	RES 2125 CHIP 1/16W 1.2K-J TAPE
RSP7	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RX36	0195914R	RES 2125 CHIP 1/16W 3.9K-J TAPE
RSP8	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	RX37	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
RSP9	0195871R	RES.2125 CHIP 1/10W 75-J TAPE	RX38	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RSR1	0700027M	RES.-CARBON FLM 1/16W 100-JB	RX39	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RSR2	0179559M	REG.-METAL GRAZED FILM 1.2M-JB	RX40	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RSR3	0195916R	RES.2125 CHIP 1/16W 4.7K-J TAPE	RX41	0195904R	RES.2125 CHIP 1/16W 1.5K-J TAPE
RSR4	0195929R	RES 2125 CHIP 1/16W 15K-J TAPE	RX42	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RSR5	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RX43	0195904R	RES.2125 CHIP 1/16W 1.5K-J TAPE
RSR6	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE	RX44	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RSR7	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	RX45	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
RSR8	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RX46	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
RSR9	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE	RX47	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RSS1	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	RX48	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RSS2	0195950R	RES 2125 CHIP 1/16W 100K-J TAPE	RX49	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RSS7	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RX50	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
RSS8	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB	RX52	0195916R	RES.2125 CHIP 1/16W 4.7K-J TAPE
RSS9	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	RX56	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RST1	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	RX57	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RST2	0195918R	RES 2125 CHIP 1/16W 5.6K-J TAPE	RX58	0195250R	RES 2125 CHIP JAMPER WIRE
RST3	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RX62	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
RST4	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE	RX65	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RST6	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE	RX66	0195908R	RES.2125 CHIP 1/10W 2.2K-J TAPE
RST9	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RX67	0195937R	RES.2125 CHIP 1/16W 33K-J TAPE
RSW1	0700063M	RES.-CARBON FLM 1/16W 47K-JB	RX68	0195937R	RES.2125 CHIP 1/16W 33K-J TAPE

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
RX69	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RZ11	0195250R	RES 2125 CHIP JAMPER WIRE
RX70	0195941R	RES.2125 CHIP 1/16W 47K-J TAPE	RZ20	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB
RX71	0195875R	RES 2125 CHIP 1/16W 100-J TAPE			
RX72	0195875R	RES 2125 CHIP 1/16W 100-J TAPE			**RELAYS, SWITCHES**
RX73	0195910R	RES.2125 CHIP 1/16W 2.7K-J TAPE	⚠ S901	FJ00142	RELAY ALKS329
RX74	0195910R	RES.2125 CHIP 1/16W 2.7K-J TAPE	S902	FJ00142	RELAY ALKS329
RX75	0195927R	RES 2125 CHIP 1/16W 12K-J TAPE	S903	FJ00142	RELAY ALKS329
RX76	0195945R	RES 2125 CHIP 1/16W 68K-J TAPE	S904	FJ00142	RELAY ALKS329
RX77	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	SK01	FE10332R	SWITCH (TYPE SWP01N01TKSH0636BT)
RX79	0196888R	RES 2125CHIP 1/10W1.0K-F TAPE	SM01	FE00001R	PUSH SWITCH
RX80	0195943R	RES.2125 CHIP 1/16W 56K-J TAPE	SM02	FE00001R	PUSH SWITCH
RX81	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE	SM03	FE00001R	PUSH SWITCH
RX82	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	SM04	FE00001R	PUSH SWITCH
RX83	0196896R	RES 2125CHIP 1/16W2.2K-F TAPE	SM05	FE00001R	PUSH SWITCH
RX84	0196898R	RES 2125CHIP 1/16W2.7K-F TAPE	SM06	FE00001R	PUSH SWITCH
RX85	0196897R	RES 2125CHIP 1/16W2.4K-F TAPE	SM07	FE00001R	PUSH SWITCH
RX86	0196896R	RES 2125CHIP 1/16W2.2K-F TAPE	SM09	FE10332R	SWITCH (TYPE SWP01N01TKSH0636BT)
RX88	0195895R	RES.2125 CHIP 1/10W 680-J TAPE			
RX89	0195875R	RES 2125 CHIP 1/16W 100-J TAPE			**TRANSFORMERS**
RX90	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	⚠ T751	BZ03061	DRIVE TRANS.-DJ81
RX91	0195895R	RES.2125 CHIP 1/10W 680-J TAPE	⚠ T752	BT01231	PT-EE28F05US-HOTDP8X
RX92	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	⚠ T901	BT01591	COIL SW.TRANS PT-EE40F13US-DP01
RY13	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	⚠ TH01	BW00634	HFL1735YP(2H/0.48 H) FBT
RY16	0195920R	RES 2125 CHIP 1/16W 6.8K-J TAPE	⚠ TP91	BT01602	COIL SW.TRANS PT-EE42F15US-DP01-2
RY24	0195250R	RES 2125 CHIP JAMPER WIRE			
RY26	0195927R	RES 2125 CHIP 1/16W 12K-J TAPE			**SPEAKERS**
RY27	0195937R	RES.2125 CHIP 1/16W 33K-J TAPE	⚠ U401	GK00311	SP-05M C057PT502-10 (61")
RY28	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	⚠ U401	GK00491	SP-05CMM EAST5PH03A6 (53")
RY29	0195885R	RESISTOR 2125 CHIP 1/16W 270J TAPE	⚠ U402	GK00321	SP-12M C120RB501-10 (61")
RY33	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	⚠ U402	GK00481	SP-12CMM EAST12PL17A (53")
RY34	0195920R	RES 2125 CHIP 1/16W 6.8K-J TAPE	⚠ U403	GK00331	SP-10M C100RB5803-10 (61")
RY41	0195250R	RES 2125 CHIP JAMPER WIRE	⚠ U403	GK00501	SP-10CMM EAST10P16A6 (53")
RY43	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	⚠ U405	GK00311	SP-05M C057PT502-10 (61")
RY44	0195927R	RES 2125 CHIP 1/16W 12K-J TAPE	⚠ U405	GK00491	SP-05CMM EAST5PH03A6 (53")
RY45	0195937R	RES.2125 CHIP 1/16W 33K-J TAPE	⚠ U406	GK00321	SP-12M C120RB501-10 (61")
RY46	0195885R	RESISTOR 2125 CHIP 1/16W 270J TAPE	⚠ U406	GK00481	SP-12CMM EAST12PL17A (53")
RY50	0195875R	RES 2125 CHIP 1/16W 100-J TAPE			
RY51	0195920R	RES 2125 CHIP 1/16W 6.8K-J TAPE			**FILTERS, CRYSTALS**
RY59	0195250R	RES 2125 CHIP JAMPER WIRE	X001	2163971	CERAMIC FILTER 4MHZ
RY61	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	X201	2791501	CRYSTAL HC-49/U
RY62	0195927R	RES 2125 CHIP 1/16W 12K-J TAPE	X202	2168771	X'TAL(TYPE CSB503F30)
RY63	0195937R	RES.2125 CHIP 1/16W 33K-J TAPE	X401	2791501	CRYSTAL HC-49/U
RY64	0195885R	RESISTOR 2125 CHIP 1/16W 270J TAPE	X402	2168771	X'TAL(TYPE CSB503F30)
RY68	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	X701	2168771	X'TAL(TYPE CSB503F30)
RY70	0195250R	RES 2125 CHIP JAMPER WIRE			
RY72	0195910R	RES.2125 CHIP 1/16W 2.7K-J TAPE			**MISCELLANEOUS**
RY83	0195875R	RES 2125 CHIP 1/16W 100-J TAPE	E001	2169513	COIL LX-ZCAT2032
RY86	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE	E002	2169513	COIL LX-ZCAT2032
RY87	0195862R	RES 2125 CHIP 1/16W 33J TAPE	E003	2169513	COIL LX-ZCAT2032
RZ01	0196890R	RES 2125CHIP 1/10W1.2K-F TAPE	E004	2169513	COIL LX-ZCAT2032
RZ02	0196873R	RES 2125CHIP 1/10W 240-F TAPE	E005	2169513	COIL LX-ZCAT2032
RZ04	0196890R	RES 2125CHIP 1/10W1.2K-F TAPE	E006	2169512	CLAMP NOISE FILTER ZCAT3035
RZ05	0196873R	RES 2125CHIP 1/10W 240-F TAPE	⚠ E10B	GX00193	MAG-VM(C-C) 36.5 4.5U SVM COIL
RZ08	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	⚠ E10G	GX00193	MAG-VM(C-C) 36.5 4.5U SVM COIL
RZ09	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	⚠ E10R	GX00193	MAG-VM(C-C) 36.5 4.5U SVM COIL
RZ10	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	E11B	3811322	DY INSULATOR

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
E11G	3811322	DY INSULATOR			
E11R	3811322	DY INSULATOR			
⚠ E12B	BY01221	DY-36.5 .48/2.5 2H S YOKE ASSY			
⚠ E12G	BY01221	DY-36.5 .48/2.5 2H S YOKE ASSY			
⚠ E12R	BY01221	DY-36.5 .48/2.5 2H S YOKE ASSY			
⚠ E801	EY00601	CRT SOCKET (TYPE HPS0630-010300)			
⚠ E851	EY00601	CRT SOCKET (TYPE HPS0630-010300)			
⚠ E8A1	EY00601	CRT SOCKET (TYPE HPS0630-010300)			
⚠ E901	EV00551	COD UL/CSA 302 5199 AC CORD			
E902	3739671	BS CORD HOLDER NYLON6			
ES01	2169513	COIL LX-ZCAT2032			
ES02	2169513	COIL LX-ZCAT2032			
ES03	2169513	COIL LX-ZCAT2032			
ES04	2169513	COIL LX-ZCAT2032			
ES1	EF02233	CO-09C-N2R0-322 (PH)			
ES2	EF02242	CO-10C-N2R0-262 (PH)			
ES3	EF02253	CO-06C-N2R0-152 (PH)			
ESE0	FT00011	SOLAR BATTERY(AM3011) MF SENSOR			
ESE1	FT00011	SOLAR BATTERY(AM3011) MF SENSOR			
ESE2	FT00011	SOLAR BATTERY(AM3011) MF SENSOR			
ESE3	FT00011	SOLAR BATTERY(AM3011) MF SENSOR			
ESE4	FT00011	SOLAR BATTERY(AM3011) MF SENSOR			
ESE5	FT00011	SOLAR BATTERY(AM3011) MF SENSOR			
ESE6	FT00011	SOLAR BATTERY(AM3011) MF SENSOR			
ESE7	FT00011	SOLAR BATTERY(AM3011) MF SENSOR			
⚠ ESF	2958151	CONNECTOR RE01X-X3239A901			
ETU1	2979173	PLUG WITH COAXIAL CABLE			
ETU2	2979172	MINI PLUG WITH COAXIAL CABLE			
FE91	2721351	FUSE HOLDER			
⚠ G801	CJ00071R	SPARK GAP 1.5KV			
⚠ G802	CJ00071R	SPARK GAP 1.5KV			
⚠ G851	CJ00071R	SPARK GAP 1.5KV			
⚠ G852	CJ00071R	SPARK GAP 1.5KV			
⚠ G8A1	CJ00071R	SPARK GAP 1.5KV			
⚠ G8A2	CJ00071R	SPARK GAP 1.5KV			
⚠ GF01	CJ00072R	SPARK GAP 2.5KV			
		OWNER ACCESSORIES			
E203	FQ00021	DRY BATTERY(R6P-AA)			
E301	HL01322	RCT CLU-572TSI			
N201	QR45521	DP07 INST.BOOK(ENG)			
N201	QR45531	DP07 INST.BOOK(FRN)			
N203	H462871	V-CHIP GUIDE DP0X			
N211	H462844	DP07 EASY GRAPHIC GUIDE			

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SYMBOL NO.	PART NO.	PART DESCRIPTION
		53SWX01W Exploded View Parts List
1	3211078/9	SPEAKER GRILLE R/L
2	H311835	61 END CAP R
3	H311836	61 END CAP L
4	PH09253	DECORATION RAIL
5	55010117	FRONT DOOR
6	55010230	FRONT DOOR "B" ASSY
7	PH08419	CONTROL PANEL
8	UE07901	CPD-LFM ASSY (R) CRT ASSY
9	UE07902	CPD-LFM ASSY (G) CRT ASSY
10	UE07903	CPD-LFM ASSY (B) CRT ASSY
11	NA11703	CRT METAL
12	33200073	LOWER BACK BAR
13	KQ00732K	CPD38 LENS ASSY (R)
14	KQ00732K	CPD38 LENS ASSY (G)
15	KQ00731K	CPD38 LENS ASSY (B)
16	QD08753	53" VERTICAL FRAME
17	QD08743	53" TOP FRAME
18	H311435	2K FRAME CORNER "R"
19	H311436	2K FRAME CORNER "L"
20	QD08744	53" BOTTOM FRAME
21	H420532	BOTTOM BRACKET
22	KR01073	SCREEN ASSY
23	H312171	BACK COVER
24	NJ04211	LONG GRIP
25	KS02021	53" MIRROR
26	NJ04211	LONG GRIP
27	NJ04232	SIDE GRIP
28	H512271	LOWER REAR BOARD
29	33010389	BARRIER BOARD
30	PH09321	53" PLASTIC SPEAKER MESH

SYMBOL NO.	PART NO.	PART DESCRIPTION
		61SWX01W Exploded View Parts List
1	3211078/9	SPEAKER GRILLE R/L
2	H311835	61 END CAP R
3	H311836	61 END CAP L
4	PH09252	DECORATION RAIL
5	55010117	FRONT DOOR
6	55010230	FRONT DOOR "B" ASSY
7	PH08419	CONTROL PANEL
8	UE07901	CPD-LFM ASSY (R) CRT ASSY
9	UE07902	CPD-LFM ASSY (G) CRT ASSY
10	UE07903	CPD-LFM ASSY (B) CRT ASSY
11	NA11703	CRT METAL
12	33200055	LOWER BACK BAR
13	KQ00732K	CPD38 LENS ASSY (R)
14	KQ00732K	CPD38 LENS ASSY (G)
15	KQ00731K	CPD38 LENS ASSY (B)
16	QD08754	61" VERTICAL FRAME
17	QD08745	61" TOP FRAME
18	H311435	2K FRAME CORNER "R"
19	H311436	2K FRAME CORNER "L"
20	QD08746	61" BOTTOM FRAME
21	H420532	BOTTOM BRACKET
22	KR01072	SCREEN ASSY
23	55050012	MIRROR BOARD ASSY
24	KS00166	61" MIRROR
25	33100108	UPPER BACK COVER
26	33100109	MIDDLE BACK COVER
27	H512272	LOWER REAR BOARD
28	PH09322	61" PLASTIC SPEAKER MESH

QUICK REFERENCE PARTS LIST

DP07 IC & UNIT					
NO.	SYMBOL	PART NO.	DESCRIPTION	FUNCTION	PWB
1	EANT	HP00771	ANT SW	ANTENNA SWITCH BOX	M CHASS
2	HM01	CZ00641	IC RPM6938-H5	IRRECEIVER	CONTROL
3	I001	CP07165U	IC MN102H51KHT	TVMICROMICROPROCESSOR	SIGNAL
4	I002	CK32542R	DIGITAL MONOLITHIC IC (M24C16-WMN6T)	E2PROM	SIGNAL
5	I003	CK31071R	IC CXA1875AM	DIGITAL ANALOG CONVERTER	SIGNAL
6	I004	CK31071R	IC CXA1875AM	DIGITAL ANALOG CONVERTER	SIGNAL
7	I005	CK31992R	IC BU4053BCF-E2	MAIN-SUB SELECTOR	SIGNAL
8	I006	CP06941R	IC PST994I	RESET IC (+3.3V)	SIGNAL
9	I007	CP05572	ANALOG MONOLITHIC IC (BA17809)	+9V REGULATOR	SIGNAL
10	I008	CP05571	IC BA17805	+5V REGULATOR	SIGNAL
11	I009	CP05163F	IC REG.(SI-3090F)	+9V REGULATOR	SIGNAL
12	I010	CP05162F	IC REG.(SI-3050F)	*5V REGULATOR	SIGNAL
13	I011	CP06581U	IC LF25CV	+2.5V REGULATOR	SIGNAL
14	I012	CP04232	ANALOG MONOLITHIC IC BA033T	+3.3V REGULATOR	SIGNAL
15	I014	CK34051R	IC TC74HCT245AF	+3.3V->+5.0V LEVEL SHIFT	SIGNAL
16	I015	2004781	ICL-LA7213	COMPONENT 1 SYNC. SEPARATOR IC	SIGNAL
17	I016	2004781	ICL-LA7213	COMPONENT 2 SYNC. SEPARATOR IC	SIGNAL
18	I201	CK07923U	IC TA1270BF	MAIN VIDEO CHROMA	SIGNAL
19	I202	CK31992R	IC BU4053BCF-E2	MAIN SYNC. SELECTOR	SIGNAL
20	I203	2015452R	IC HD74HC04FPEL	SYNC. INVERTER	SIGNAL
21	I205	CK08521R	ANALOG MONOLITHIC IC (BA7657F-E2)	MAIN YCBCR SELECTOR	SIGNAL
22	I207	2004781	ICL-LA7213	SYNC. SEPARATOR	SIGNAL
23	I401	CK30941U	ANALOG MONOLITHIC IC(CXA2069Q)	AUDIO/VIDEO SELECTOR	TERMINAL
24	I402	CW00022	COMB FILTER (337KNT)	2 LINE Y/C SEPARATION IC (SUB)	TERMINAL
25	I403	CK07923U	IC TA1270BF	VIDEO CHROMA IC (SUB)	TERMINAL
26	I404	CK08521R	ANALOG MONOLITHIC IC (BA7657F-E2)	NTSC/COMPONENT SELECTOR (SUB)	TERMINAL
27	I405	CK31992R	IC BU4053BCF-E2	NTSC/COMPONENT SYNC. SEL.(SUB)	TERMINAL
28	I406	CK32711R	IC BA7609F	COMPONENT 1/2 SELECTOR (MAIN)	TERMINAL
29	I407	CK32711R	IC BA7609F	COMPONENT 1/2 SELECTOR (SUB)	TERMINAL
30	I408	2004781	ICL-LA7213	COMPONENT 1/2 SYNC. SEP. (SUB)	TERMINAL
31	I409	2382742R	ICC-SC7S04F	INVERTER (SUB)	TERMINAL
32	I601	CP06891	IC TDA8174A	VERTICAL OUTPUT	DEFLECTION
33	I651	2365452	IC NJM2903D	HOR. SIZE	DEFLECTION
34	I701	CP06551	IC TA1300AN	DEFLECTION CONT.(31.5/33.75KHz)	DEFLECTION
35	I901	CZ00864	IC STR-F6626(LF1352)	SWITCHINGREGULATOR	POWER
36	I902	2000465	IC PS2501-1 (KC/LC)	OPTO. ISOLATOR	POWER
37	I903	2000465	IC PS2501-1 (KC/LC)	OPTO. ISOLATOR	POWER
38	I904	2000465	IC PS2501-1 (KC/LC)	OPTO. ISOLATOR	POWER
39	I905	CP03922F	ANALOG MONOLITHIC IC (SI-8050S)	+7V VOLTAGE REGULATOR	POWER
40	I906	CP03923F	ANALOG MONOLITHIC IC (SI-8090S)	+11V VOLTAGE REGULATOR	POWER
41	I907	CP03922F	ANALOG MONOLITHIC IC (SI-8050S)	+5V VOLTAGE REGULATOR	POWER
42	I908	CP03924F	IC SI-8120S	+12V VOLTAGE REGULATOR	POWER
43	IC01	2004751	IC TA8200AH	FRONT AUDIO AMPLIFIER	SIGNAL
44	IH02	CP07091	IC M62501P	HIGH VOLTAGE DETECT/REGULATOR	DEFLECTION
45	IK01	CP05571	IC BA17805	VOLTAGE REGULATOR IC (+5V)	DEFLECTION
46	IK02	CP01631R	ICL-PST9142	CONVERGENCE MUTE IC (DCU)	DEFLECTION
47	IK03	CP05571	IC BA17805	VOLTAGE REGULATOR IC (+5V)	DEFLECTION
48	IK04	CZ00431	HYBRID IC (STK392-110)	CONVERGENCEAMPLIFIERIC.	DEFLECTION
49	IK05	CZ00431	HYBRID IC (STK392-110)	CONVERGENCEAMPLIFIERIC.	DEFLECTION
50	IP01	CZ00865	STR-F6629B(LF1351)	SWITCHING REGULATOR IC	DEFLECTION
51	IP02	CP05141	ANALOG MONOLITHIC IC (PQ6RD083)	VOLTAGE REGULATOR IC (HEATER)	DEFLECTION
52	IP03	2381349	HYBRID IC (SE120N:+B CONT.)	+B REGULATOR IC	DEFLECTION
53	IP04	2000465	IC PS2501-1 (KC/LC)	OPTO. ISOLATOR IC	DEFLECTION
54	IS01	CK31071R	IC CXA1875AM	DIGITAL ANALOG CONVERTER IC	SURROUND
55	IS02	CK33801R	IC NJM2068F	INVERTER BUFFER IC (AUDIO)	SURROUND
56	IS03	CK33691R	IC TDA7309	FRONT VOLUME CONTROL IC	SURROUND
57	IS04	CK33801R	IC NJM2068F	BUFFER (AUDIO)	SURROUND
58	IS05	CP06901U	IC TDA7317	GRAPHIC EQUALIZER IC (FRONT)	SURROUND
59	IS06	CK33801R	IC NJM2068F	INVERTER AMPLIFIER (10.5 dB)	SURROUND
60	IS07	CK33801R	IC NJM2068F	INVERTER AMPLIFIER (4.5 dB)	SURROUND
61	IS08	CK33691R	IC TDA7309	CENTER/SUB VOL. CONTROL	SURROUND
62	IS09	CK33801R	IC NJM2068F	BUFFER (AUDIO)	SURROUND
63	IS10	CP06901U	IC TDA7317	GRAPHIC EQUALIZER IC (CENTER)	SURROUND
64	IS11	CK33691R	IC TDA7309	REAR VOLUME CONTROL IC	SURROUND
65	IS12	CK33801R	IC NJM2068F	AUDIO AMPLIFIER IC (+6 dB)	SURROUND
66	IS13	CP05162F	IC REG.(SI-3050F)	VOLTAGE REGULATOR IC (+5V)	SURROUND
67	IS15	2004751	IC TA8200AH	CENTER AUDIO AMPLIFIER IC	SURROUND
68	IS16	2004751	IC TA8200AH	REAR AUDIO AMPLIFIER IC	SURROUND
69	IS17	CK32011R	IC TC74HC151AF	DIGITAL AUDIO INPUT SELECTOR	SURROUND
70	IS18	CK34031R	IC TC74HCU04AF	COAXIAL DIGITAL AUDIO INVERTER	SURROUND
71	IS19	CP02601	AN5285K	PERFECTVOLUMEIC	SURROUND
72	IS20	CK33801R	IC NJM2068F	AUDIO AMPLIFIER IC (-3 dB)	SURROUND
73	IX01	CP05662U	IC TA1298AN	RGBPROCESSORIC	2H VIDEO
74	IX02	CK32711R	IC BA7609F	YCBCR/YIQ SELECTOR IC	2H VIDEO
75	U201	HC00311	TUNER UNIT V6-A30FT	MAIN TUNER	SIGNAL
76	U202	HC00401	PIP V8-A68CT	SUB TUNER	SIGNAL
77	U204	HP00705	KC-301S(3DYC SEP UNIT)	3D Y/C UNIT COMB FILTER	SIGNAL
78	U205	CS00492	FC UNIT ASY (HC5612)	FLEX CONV. UNIT (4:3) / PIP	SIGNAL
79	UKDG	CS00451	HC2151 DIGI CON UNIT ASY	DIGITAL CONVERGENCE UNIT	DEFLECTION
80	US01	CS00482	DSP UNIT(HC4052) ASY	DIGITAL SOUND PROCESSOR UNIT	SURROUND

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